

0010841 - WHF HYDRA/REVITA

Revision nr. 1

Dated 03/03/2020

Printed on 03/03/2020

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MILANO 1987	SHAMPOO	
	Safety Data Sheet	
	According to Annex II to REACH - Regulation 2015/830	
<b>SECTION 1. Identific</b>	cation of the substance/mixture and of the company/une	dertaking
1.1. Product identifier		
Code: Product name	0010841 WHF HYDRA SHAMPOO /WHF	
Floduct flame	REVITA SHAMPOO	
1.2. Relevant identified uses Intended use	s of the substance or mixture and uses advised against Mixture for cosmetic use (shampoo)	
1.3. Details of the supplier o	of the safety data sheet	
Name	G.V.F. – GIVIEFFE S.P.A.	
Full address District and Country	Via Giovanni Falcone, 8 20080 Vernate (MI)	
,	Italy	
	phone 0039 0290093743	
	fax 0039 0290093740	
e-mail address of the compete		
responsible for the Safety Data	ta Sheet sarah.pizzolato@itelyhairfashion.it	
1.4. Emergency telephone n		
For urgent inquiries refer to	Available 24 hours/day, 7/7 days: CAV "Osp. Pediatrico Bambino Gesù" Dip. Emerger 0668593726	nza e Accettazione DEA (Roma): +39
	Az. Osp. Univ. Foggia (Foggia): +39 800183459 Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870	
	CAV Policlinico "Umberto I" (Roma): +39 064997800	0
	CAV Policlinico "A. Gemelli" (Roma): +39 06305434 Az. Osp. "Careggi" U.O. Tossicologia Medica (Firer	3 )ze): +39 0557947819
	CAV Centro Nazionale di Informazione Tossicologio	ca (Pavia): +39 038224444
	Azienda Ospedaliera Papa Giovanni XXII (Bergamo) European emergency number: 112 (Available 24 ho	

## **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

Hazard classification and indication:



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### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words:

Hazard statements:

Precautionary statements:

P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Contains:	1-propanamminio, 3-ammino-N-(carbossimetil)-N,N-dimetil-, N-(C8-18(pari) e C18 acile insaturo) deriv., idrossidi, sali interni Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

# **SECTION 3. Composition/information on ingredients**

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts		
CAS 90583-11-2	8≤x< 9	Met. Corr. 1 H290, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
EC 292-209-0		
INDEX -		
Reg. no. 01-2119519217-42		



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1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N- (C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts CAS 147170-44-3	2≤x< 2,5	Eye Dam. 1 H318, Aquatic Chronic 3 H412
EC 931-333-8		
INDEX -		
Reg. no. 01-2119489410-39		
1-Propanaminium, N-(3- aminopropyl)-2-hydroxy-N,N- dimethyl-3-sulfo-, N-coco acyl derivs., hydroxides, inner salts CAS 68139-30-0	1,5≤x< 2	Eye Irrit. 2 H319
EC 268-761-3		
INDEX -		
Alcohols, C12-14, ethoxylated		
CAS 68439-50-9	0,35 ≤ x < 0,4	Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 3 H412
EC		
INDEX -		
[3R-(3α,3aβ,6β,7β,8aα)]- octahydro-6-methoxy-3,6,8,8- tetramethyl-1H-3a,7- methanoazulene CAS 19870-74-7 EC 243-384-7	0,15 ≤ x < 0,2	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
INDEX -		
Reg. no. 01-2120228335-61		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available



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### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### **SECTION 6.** Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.



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### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Normal value in fresh water Normal value in marine water Normal value for fresh water sediment								
				0,102	mç	g/l		
Normal value for freeh water addiment				0,01	mį	g/I		
Normal value for mesh water sediment	nt			3,58	mç	g/kg		
Normal value for marine water sedime	ent			0,358	mį	g/kg		
Normal value for water, intermittent rel	elease			0,036	mį	g/I		
Normal value of STP microorganisms	3			1,35	mç	g/I		
Normal value for the terrestrial compare	artment			0,654	mç	g/kg		
	I - DNEL / DN ffects on onsumers	MEL			Effects on workers			
Route of exposure Ac	cute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				24 mg/kg bw/d		-,		-,
Inhalation				85 mg/m3				285 mg/m3
Skin				2440 mg/kg bw/d				4060 mg/kg bw/d
1-propanamminio, 3-ammino-N Predicted no-effect concentration - PN		netil)-N,N-dimet	il-, N-(C8-18(pa				i, sali interni	
Predicted no-effect concentration - PN		netil)-N,N-dimet	il-, N-(C8-18(pa	ri) e C18 acile	<b>insaturo) de</b> mg		i, sali interni	
Predicted no-effect concentration - PN Normal value in fresh water		netil)-N,N-dimet	il-, N-(C8-18(pa			ŋ/l	i, sali interni	
Predicted no-effect concentration - PN Normal value in fresh water Normal value in marine water	NEC	netil)-N,N-dimet	il-, N-(C8-18(pa	0,013	mç	ŋ/l	i, sali interni	
Predicted no-effect concentration - PN Normal value in fresh water Normal value in marine water Normal value for fresh water sediment	nec	netil)-N,N-dimet	il-, N-(C8-18(pa	0,013 0,0013	mı mı mı	g/l g/l	i, sali interni	
Predicted no-effect concentration - PN Normal value in fresh water Normal value in marine water Normal value for fresh water sediment Normal value for marine water sedime	NEC	netil)-N,N-dimet	il-, N-(C8-18(pa	0,013 0,0013 14,8	mı mı mı	y/l y/l y/kg	i, sali interni	
	NEC	netil)-N,N-dimet	il-, N-(C8-18(pa	0,013 0,0013 14,8 1,48		y/l y/l y/kg	i, sali interni	
Predicted no-effect concentration - PN Normal value in fresh water Normal value in marine water Normal value for fresh water sediment Normal value for marine water sedime Normal value of STP microorganisms Normal value for the terrestrial compar Health - Derived no-effect level Ef	NEC		il-, N-(C8-18(pa	0,013 0,0013 14,8 1,48 3000		y/l y/l g/kg g/kg	i, sali interni	
Predicted no-effect concentration - PN Normal value in fresh water Normal value in marine water Normal value for fresh water sediment Normal value for marine water sedime Normal value of STP microorganisms Normal value of the terrestrial compar Health - Derived no-effect level Ef	NEC ent artment I - DNEL / DI		il-, N-(C8-18(pa	0,013 0,0013 14,8 1,48 3000	mş mş mş mş mş Effects on	y/l y/l g/kg g/kg	i, sali interni	Chronic systemic
Predicted no-effect concentration - PN Normal value in fresh water Normal value in marine water Normal value for fresh water sediment Normal value for marine water sedime Normal value of STP microorganisms Normal value for the terrestrial compar Health - Derived no-effect level Ef	NEC it ent artment <b>I - DNEL / DI</b> iffects on onsumers	MEL		0,013 0,0013 14,8 1,48 3000 0,8 Chronic	mg mg mg mg mg Effects on workers	y/l y/kg y/kg y/l g/kg Acute		
Predicted no-effect concentration - PN Normal value in fresh water Normal value in marine water Normal value for fresh water sediment Normal value for marine water sedime Normal value of STP microorganisms Normal value for the terrestrial compar Health - Derived no-effect level Ef co Route of exposure Ac	NEC it ent artment <b>I - DNEL / DI</b> iffects on onsumers	MEL		0,013 0,0013 14,8 1,48 3000 0,8 Chronic systemic 7,5 mg/kg	mg mg mg mg mg Effects on workers	y/l y/kg y/kg y/l g/kg Acute		



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Predicted no-effect concent								
Normal value in fresh water				0,43	hð	/L		
Normal value in marine water			0,043	hð	/L			
Normal value for fresh water sediment			1,29	mg	ı/kg			
Normal value for marine water sediment				0,129	mg	ı/kg		
Normal value of STP microorganisms				100	mg	ı/I		
Normal value for the terrestrial compartment			0,257	mg	ı/kg			
Health - Derived no-eff	ect level - DNEL / [	OMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,7 mg/kg bw/d				
nhalation				4,7 mg/m3				16,1 mg/m3
Skin			1220 µg/cm <sup>2</sup>	2,7 mg/kg bw/d			2030 µg/cm <sup>2</sup>	4,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.



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Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## **SECTION 9.** Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid	Method: visual Remark: atmospheric pressure: 101,325 kPa
		Temperature: 20° C
Colour	Pearly Lilac/ Pearly White	Method: visual
Odour Odour threshold	Not available Not available	
pH	5,20 - 5,80	Method: pH meter METTLER
Melting point / freezing point Initial boiling point Boiling range Flash point Evaporation rate Flammability (solid, gas) Lower inflammability limit Upper inflammability limit Lower explosive limit	Not available Not available Not available > 60 °C Not available Not applicable Not available Not available Not applicable	Calculation method Remark: there are not components with explosive properties
Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure Vapour density Relative density Solubility Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity	Not available Not available 1,02 +/- 0,005 g/mL Not available Not available Not available Not available 7000 - 9000 cps	Method: Picnometer Method: Brookfield RV S03 - 5RPM – temp. 23° C
Explosive properties	Not explosive	Remark: there aren't components with explosive properties
Oxidising properties	Not oxidising	Remark: there aren't components with explosive properties

#### 9.2. Other information

VOC: 0,0062 g/mL – 0,62%

## **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.



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#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

## **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: >2000 mg/kg LD50 (Dermal) of the mixture: Not classified (no significant component)

Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts

LD50 (Oral) < 2000 mg/kg EU Method B.1 bis - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA



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[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene LD50

(Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

1-propanamminio, 3-ammino-N-(carbossimetil)-N,N-dimetil-, N-(C8-18(pari) e C18 acile insaturo) deriv., idrossidi, sali interni

LD50 (Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

Alcoli, C12-14, etossilati

LD50 (Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

1-propanamminio, N-(3-amminopropil)-2-idrossi-N,N-dimetil-3-solfo, N-coco acile deriv., idrossidi, sali interni

LD50 (Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

### RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene GERM

### CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class



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### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

### 12.1. Toxicity

Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts

LC50 - for Fish	3,6 mg/l/96h Species: Oncorhynchus mykiss. OECD Guideline 203 - ECHA
EC50 - for Crustacea	4,7 mg/l/48h Species: Daphnia magna. EG-guideline EG/92/69/EWG - ECHA
EC50 - for Algae / Aquatic Plants	11 mg/l/72h Species: Desmodesmus subspicatus. EU Method C.3 - ECHA
EC10 for Algae / Aquatic Plants	2,7 mg/l/72h Species: Desmodesmus subspicatus. EU Method C.3 - ECHA
Chronic NOEC for Fish	> 1,357 mg/l Species: Pimephales promelas - ECHA
Chronic NOEC for Crustacea	0,88 mg/l Species: Ceriodaphnia dubia. Read-across, similar to EPA-600/489/001 - ECHA
Chronic NOEC for Algae / Aquatic Plants	3 mg/l Species: Desmodesmus subspicatus. EU Method C.3 - ECHA
[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,	6,8,8-tetramethyl-1H-3a,7-methanoazulene
LC50 - for Fish	0,43 mg/l/96h Species: Cyprinus carpio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,48 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
Chronic NOEC for Algae / Aquatic Plants	0,51 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA

1-propanamminio, 3-ammino-N-(carbossimetil)-N,N-dimetil-, N-(C8-18(pari) e C18 acile insaturo) deriv., idrossidi, sali interni

15 mg/l/96h OECD 203
1,1 mg/l/48h OECD 202
4,66 mg/l/72h OECD 201
0,135 mg/l OECD 210
0,32 mg/l OECD 211

EC50 - for Crustacea

0,53 mg/l/48h EG-Guideline 92/69/EWG - ECHA



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1-propanamminio, N-(3-amminopropil)-2-idrossi-N,N-dimetil-3-solfo, N-coco acile deriv., idrossidi, sali interni EC50 - for Crustacea 11 mg/l/48h OECD Guideline 202 - ECHA 12.2. Persistence and degradability Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts > 330000 mg/l OECD Guideline 105, temp. 20° C - ECHA Solubility in water Rapidly degradable OECD Guideline 301 B - ECHA  $[3R-(3\alpha,3a\beta,6\beta,7\beta,8a\alpha)]$ -octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene 4,3 mg/l Simile a OECD Guideline 105, temp. 24° C - ECHA Solubility in water Rapidly degradable OECD Guideline 301 D - ECHA 1-propanamminio, 3-ammino-N-(carbossimetil)-N,N-dimetil-, N-(C8-18(pari) e C18 acile insaturo) deriv., idrossidi, sali interni Rapidly degradable ECHA Alcoli, C12-14, etossilati Rapidly degradable OECD Guideline 301 F - ECHA 1-propanamminio, N-(3-amminopropil)-2-idrossi-N,N-dimetil-3-solfo, N-coco acile deriv., idrossidi, sali interni Rapidly degradable OECD Guideline 301 D - ECHA 12.3. Bioaccumulative potential Sulfuric acid, mono-C12-14-alkyl esters, ammonium salts Partition coefficient: n-octanol/water 0,8 OECD Guideline 123, temp. 22° C pH 7,1 - 7,6 - ECHA  $[3R-(3\alpha,3a\beta,6\beta,7\beta,8a\alpha)] - octahydro-6 - methoxy-3,6,8,8 - tetramethyl-1H-3a,7 - methanoazulene$ Partition coefficient: n-octanol/water 5,1 Similar to OECD Guideline 117, temp. 25° C - ECHA BCF 1510 L/kg ww QSAR model - ECHA 12.4. Mobility in soil Information not available 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

### 12.6. Other adverse effects

Information not available



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## **SECTION 13.** Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

# **SECTION 15. Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None



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Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

# **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H290	May be corrosive to metals.



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H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50% - LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation - PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).
- GENERAL BIBLIOGRAPHY
- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 7.
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP) 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)



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- Patty - Industrial Hygiene and Toxicology

- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

- IFA GESTIS website

- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products. Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.



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	Safety Data Sheet
Accordi	ing to Annex II to REACH - Regulation 2015/830
<b>SECTION 1. Identification of the subs</b>	tance/mixture and of the company/undertaking
1.1. Product identifier	
Code: Product name	0010842 WHF VOLUME SHAMPOO
Toutothame	
1.2. Relevant identified uses of the substance or mi	
Intended use Mixture for cosmetic u	us (shampoo)
1.3. Details of the supplier of the safety data sheet	
Name	G.V.F. – GIVIEFFE S.P.A.
Full address	Via Giovanni Falcone, 8
District and Country	20080 Vernate (MI) Italy
	phone 0039 0290093743
	fax 0039 0290093740
e-mail address of the competent person	
responsible for the Safety Data Sheet	sarah.pizzolato@itelyhairfashion.it
1.4. Emergency telephone number	
For urgent inquiries refer to	Available 24 hours/day, 7/7 days: CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma): +39
	0668593726
	Az. Osp. Univ. Foggia (Foggia): +39 800183459
	Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870 CAV Policlinico "Umberto I" (Roma): +39 0649978000
	CAV Policlinico "A. Gemelli" (Roma): +39 063054343
	Az. Osp. "Careggi" U.O. Tossicología Medica (Firenze): +39 0557947819
	CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444 Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300
	European emergency number: 112 (Available 24 hours/day, 7/7 days)

### **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

2.2. Label elements



# G.V.F. – GIVIEFFE S.p.A.

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Hazard pictograms:	
Signal words:	
Hazard statements:	
Precautionary statements:	
P264 P273	Wash hands thoroughly after handling. Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
Contains:	Alcohols, C12-14, ethoxylated, sulfates, sodium salts Sulfuric acid, C12-14 (even numbered)-alkyl-esters, compds. with triethanolamine
	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts
Product not intended for use	es provided for by Dir. 2004/42/CE.
2.3. Other hazards	
On the basis of available da	ta, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

# **SECTION 3. Composition/information on ingredients**

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts		
CAS 68891-38-3	8≤x< 9	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
EC 500-234-8		
INDEX -		
Reg. no. 01-2119488639-16		



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Sulfuric acid, C12-14 (even numbered)-alkyl-esters, compds. with triethanolamine		
CAS 90583-18-9	$3,5 \le x < 4$	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412
EC 939-265-0		11712
INDEX -		
Reg. no. 01-2119970645-28		
1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N- (C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts CAS 147170-44-3	2≤x< 2,5	Eye Dam. 1 H318, Aquatic Chronic 3 H412
EC 931-333-8		
INDEX -		
Reg. no. 01-2119489410-39-0001		
[3R-(3α,3aβ,6β,7β,8aα)]- octahydro-6-methoxy-3,6,8,8- tetramethyl-1H-3a,7- methanoazulene CAS 19870-74-7	0,15 ≤ x < 0,2	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 243-384-7		IVI- I
INDEX -		
Reg. no. 01-2120228335-61		

### **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available



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### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### **SECTION 6.** Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.



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### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

# **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Alcohols, C12-14, eth	oxylated, sulfates, s	sodium salts						
Predicted no-effect concen	tration - PNEC							
Normal value in fresh wate	r			0,24	mç	g/l		
Normal value in marine wa	ter			0,024	m	g/l		
Normal value for fresh wate	er sediment			0,917	mį	g/kg		
Normal value for marine wa	ater sediment			0,092	mį	g/kg		
Normal value of STP micro	organisms			10	m	g/l		
Normal value for the terres	trial compartment			7,5	m	g/kg		
Health - Derived no-ef	fect level - DNEL / [	DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				15 mg/kg bw/d				
Inhalation				52 mg/m3				175 mg/m3

Inhalation		52 mg/m3		175 mg/m3
Skin	79 µg/cm²	1650 mg/kg bw/d	132 µg/cm²	2750 mg/kg bw/d

Predicted no-effect concent	tration - PNEC							
Normal value in fresh water				0,012	mç	<u>1</u> /I		
Normal value in marine wat	er			0,001	mç	<b>j/l</b>		
Normal value for fresh wate	er sediment			0,422	mç	ı/kg		
Normal value for marine wa	ter sediment			0,042	mg	ı/kg		
Normal value for water, inte	ermittent release			0,036	mç	j/l		
Normal value of STP micro	organisms			1,35	mç	<b>j/l</b>		
Normal value for the terrest	rial compartment			0,083	mç	ı/kg		
Health - Derived no-eff	ect level - DNEL / [	DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				24 mg/kg bw/d				
Inhalation				85 mg/m3				285 mg/m3
Skin				2440 mg/kg bw/d				4060 mg/kg bw/d



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#### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts Predicted no-effect concentration - PNEC Normal value in fresh water mg/l Normal value in marine water 0.0013 mg/l Normal value for fresh water sediment 14,8 mg/kg Normal value for marine water sediment 1,48 mg/kg Normal value of STP microorganisms 3000 mg/l Normal value for the terrestrial compartment 0,8 mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic systemic systemic Oral 7,5 mg/kg bw/d Inhalation 13,04 mg/m3 44 mg/m3 Skin 7,5 mg/kg 12,5 mg/kg bw/d bw/d $[3R-(3\alpha,3a\beta,6\beta,7\beta,8a\alpha)] - octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene$ Predicted no-effect concentration - PNEC Normal value in fresh water 0,43 µg/L Normal value in marine water 0,043 µg/L Normal value for fresh water sediment 1.29 mg/kg Normal value for marine water sediment 0.129 mg/kg Normal value of STP microorganisms 100 mg/l Normal value for the terrestrial compartment 0,257 mg/kg

Health - Derived no-ef	fect level - DNEL / D	MEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,7 mg/kg bw/d				
Inhalation				4,7 mg/m3				16,1 mg/m3
Skin			1220 µg/cm <sup>2</sup>	2,7 mg/kg bw/d			2030 µg/cm <sup>2</sup>	4,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.



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### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### **SECTION 9.** Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid	Method: visual Remark: atmospheric pressure: 101,325 kPa Temperature: 20° C
Colour	Light Blue	Method: visual
Odour	Not available	
Odour threshold	Not available	
pH	5,20 - 5,80	Method: pHmetro Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: there are not components with explosive properties
Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	1,02 +/- 0.005 g/ml	Method: Picnometer
Solubility	Not available	



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Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidising properties Not available Not available Not available 7000 - 9000 cps Not explosive Not oxidising

Method: Brookfield RV S03 - 5RPM – 23°C Remark: there aren't components with explosive properties Remark: there aren't components with oxidising properties

### 9.2. Other information

VOC: 0,00082 g/mL - 0,082%

### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available



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Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: >2000 mg/kg LD50 (Dermal) of the mixture: Not classified (no significant component)

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

LD50 (Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

Sulfuric acid, C12-14 (even numbered)-alkyl-esters, compds. with triethanolamine

LD50 (Oral) < 2000 mg/kg Read-across EU Method B.1 bis - ECHA

LD50 (Dermal) > 2000 mg/kg Read-across, OECD Guideline 402 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene LD50

(Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

LD50 (Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

SKIN CORROSION / IRRITATION

Causes skin irritation



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### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

### RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene GERM

### CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

**STOT - SINGLE EXPOSURE** 

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

### 12.1. Toxicity

Alcohols, C12-14, ethoxylated, sulfates, sodium salts	
LC50 - for Fish	7,1 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	7,4 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	27,7 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	4,4 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,2 mg/l Species: Oncorhynchus mykiss. OECD Guideline 204 - ECHA
Chronic NOEC for Crustacea	0,27 mg/l Species: Daphnia magna. Simile a OECD Guideline 211 - ECHA
Chronic NOEC for Algae / Aquatic Plants	0,95 mg/l Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
1	

Sulfuric acid, C12-14 (even numbered)-alkyl-esters, compds. with triethanolamine

LC50 - for Fish EC50 - for Crustacea 3,6 mg/l/96h Species: Oncorhynchus mykiss. OECD Guideline 203 - ECHA 7,1 mg/l/48h Species: Daphnia magna. Similar to OECD Guideline 202 - ECHA



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EC50 - for Algae / Aquatic Plants	9,3 mg/l/72h Species: Desmodesmus subspicatus. EU Method C.3 - ECHA
EC10 for Algae / Aquatic Plants	2,7 mg/l/72h Species: Desmodesmus subspicatus. EU Method C.3 - ECHA
Chronic NOEC for Fish	> 1,357 mg/l Read-across - ECHA
Chronic NOEC for Crustacea	0,88 mg/l Similar to EPA-600/489/001 - ECHA
Chronic NOEC for Algae / Aquatic Plants	3 mg/l Species: Desmodesmus subspicatus. EU Method C.3 - ECHA
[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-te	etramethyl-1H-3a,7-methanoazulene
LC50 - for Fish	0,43 mg/l/96h Species: Cyprinus carpio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,48 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 -
Chronic NOEC for Algae / Aquatic Plants	ECHA 0,51 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dime inner salts	ethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides,
LC50 - for Fish	15 mg/l/96h OECD 203
EC50 - for Crustacea	1,1 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	4,66 mg/l/72h OECD 201
Chronic NOEC for Fish	0,135 mg/l OECD 210
Chronic NOEC for Crustacea	0,32 mg/l OECD 211
12.2. Persistence and degradability	
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	280000 mg/l Temp. 20° C pH 6,8 - ECHA
Solubility in water	
Rapidly degradable Danish EPA - HERA	
Sulfuric acid, C12-14 (even numbered)-alkyl-esters, com	npds. with triethanolamine
Solubility in water	> 500000 mg/l EU Method A.6, temp. 20° C, pH 6,6 - ECHA
Rapidly degradable Simile a EU Method C.4-A - ECHA	
[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-te	etramethyl-1H-3a,7-methanoazulene
Solubility in water	4,3 mg/l Simile a OECD Guideline 105, temp. 24° C - ECHA
Rapidly degradable OECD Guideline 301 D - ECHA	
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dime inner salts	ethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides,
Rapidly degradable ECHA	
12.3. Bioaccumulative potential	
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	
Partition coefficient: n-octanol/water	0,3 OECD Guideline 123, temp. 23° C pH 6,1 - ECHA



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Sulfuric acid, C12-14 (even numbered)-alkyl-esters, compds. with triethanolamine Partition coefficient: n-octanol/water <-0,866 Computational Approach in OECD Guideline 107, temp. 20° C - ECHA

 [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

 Partition coefficient: n-octanol/water
 5,1
 Similar to OECD Guideline 117, temp. 25° C - ECHA

 BCF
 1510 L/kg ww QSAR model - ECHA

### 12.4. Mobility in soil

Information not available

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

### 12.6. Other adverse effects

Information not available

## **SECTION 13.** Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable



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### 14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

## **SECTION 15. Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

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Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.



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### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

I					
	Acute Tox. 4	Acute toxicity, category 4			
	Eye Dam. 1	Serious eye damage, category 1			
	Skin Irrit. 2	Skin irritation, category 2			
	Skin Sens. 1B	Skin sensitization, category 1B			
	Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1			
	Aquatic Chronic 1	c 1 Hazardous to the aquatic environment, chronic toxicity, category 1			
	Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3			
	H302	Harmful if swallowed.			
	H318	Causes serious eye damage.			
	H315	Causes skin irritation.			
	H317	May cause an allergic skin reaction.			
	H400	Very toxic to aquatic life.			
	H410	Very toxic to aquatic life with long lasting effects.			
	H412	Harmful to aquatic life with long lasting effects.			
1					

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament



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- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VI Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.



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Safety Data Sheet According to Annex II to REACH - Regulation 2015/830							
SECTION 1. Identification of the substance/mixture and of the company/undertaking							
<b>1.1. Product identifier</b> Code: Product name		0010843 WHF REVITA MASK					
1.2. Relevant identified uses Intended use	1.2. Relevant identified uses of the substance or mixture and uses advised against         Intended use       Mixture for cosmetic use						
<b>1.3. Details of the supplier of</b> Name Full address District and Country	f the safety data sheet	G.V.F. – GIVIEFFE S.P.A. Via Giovanni Falcone, 8 20080 Vernate (MI) Italy					
		phone 0039 0290093743					
		fax 0039 0290093740					
e-mail address of the compete	nt person						
responsible for the Safety Data	a Sheet	sarah.pizzolato@itelyhairfashion.it					
<b>1.4. Emergency telephone nu</b> For urgent inquiries refer to	umber	Available 24 hours/day, 7/7 days: CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Acc 0668593726 Az. Osp. Univ. Foggia (Foggia): +39 800183459 Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870 CAV Policlinico "Umberto I" (Roma): +39 0649978000 CAV Policlinico "A. Gemelli" (Roma): +39 063054343 Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 CAV Centro Nazionale di Informazione Tossicologica (Pavia) Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800 European emergency number: 112 (Available 24 hours/day, 7	0557947819 ): +39 038224444 )883300				

## **SECTION 2. Hazards identification**

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### 2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



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Signal words:

Hazard statements:

Precautionary statements:

P273

Avoid release to the environment.

Product not intended for uses provided for by Dir. 2004/42/CE.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

# **SECTION 3. Composition/information on ingredients**

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Alcohols, C16-18, ethoxylated		
CAS 68439-49-6	0,1 ≤ x < 2	Eye Irrit. 2 H319
EC 500-212-8		
INDEX -		
Tetradecanol		
CAS 112-72-1	0,1 ≤ x < 1	Eye Irrit. 2 H319, Aquatic Chronic 1 H410 M=1
EC 204-000-3		
INDEX -		
Reg. no. 01-2119485910-33-0000		
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides CAS 68607-24-9	0,1 ≤ x < 0,9	STOT RE 2 H373, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC 271-756-9		
INDEX -		
Reg. no. 01-2119484817-22		
Quaternary ammonium compounds, di-C12-18- alkyldimethyl, chlorides CAS 68391-05-9 EC 269-924-1 INDEX -	0,1 ≤ x < 0,6	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1



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Cetrimonium chloride CAS 112-02-7 Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1  $0,01 \le x < 0,25$ H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1 EC 203-928-6 INDEX -Reg. no. 01-2119970558-23 [3R-(3α,3aβ,6β,7β,8aα)]octahydro-6-methoxy-3,6,8,8tetramethyl-1H-3a,7methanoazulene CAS 19870-74-7  $0,01 \le x < 0,2$ Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1EC 243-384-7

INDEX -

Reg. no. 01-2120228335-61

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention. INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

### **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.



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#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### **SECTION 6.** Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available



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# **SECTION 8. Exposure controls/personal protection**

### 8.1. Control parameters

Tetradecanol								
Predicted no-effect concentrati	ion - PNEC							
Normal value in fresh water				0,00032	mg	ı/I		
Normal value in marine water			0,000032	mg	ı/I			
Normal value for fresh water se	ediment			0,36	mg	/kg		
Normal value for marine water sediment				0,036	mg/kg			
Health - Derived no-effec	t level - DNEL / D	MEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		75 mg/kg bw/d		75 mg/kg bw/d				•
Inhalation		65 mg/m3		65 mg/m3		220 mg/m3		220 mg/m3
Skin		75 mg/kg bw/d		75 mg/kg bw/d		125 mg/kg bw/d		125 mg/kg bw/d
Quaternary ammonium c	ompounds, C20-	22-alkyltrimethy	l, chlorides					
Predicted no-effect concentrati								
Normal value in fresh water				13	μg,	Ĺ		
Normal value in marine water				1,3	hð	۲L		
Normal value for fresh water sediment			1,25	mg/kg				
Normal value for marine water sediment			125	μg/kg				
Normal value for water, intermi	ittent release			14	hð	ſL		
Normal value of STP microorganisms			430	hð	ſL			
Normal value for the food chain (secondary poisoning)			6,7	mg/kg				
Normal value for the terrestrial	compartment			1	mg	/kg		
Health - Derived no-effec	t level - DNEL / C Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				oyotonno		oyotonno		0,49 mg/m3
Skin								1,7 mg/kg bw/d
Quaternary ammonium c		12-18-alkyldimet	hyl, chlorides					
Predicted no-effect concentrati	ion - PNEC							
Normal value in fresh water				0,013	mg	//		
Normal value in marine water				0,0013	mg	//		
Normal value for fresh water se	ediment			8,8	mg	/kg		
Normal value for marine water	sediment			0,88	mg	/kg		
Normal value for water, intermi	ittent release			0,0026	mg	I/I		
Normal value of STP microorg	anisms			1,2	mg	I/I		
Normal value for the terrestrial	compartment			7	mg	/kg		



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Health - Derived no-effe	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Dral				2,3 mg/kg bw/d				
nhalation								27 mg/m3
Skin				7,65 mg/kg bw/d				12,75 mg/kg bw/d
Cetrimonium chloride								
Predicted no-effect concentr	ation - PNEC							
Normal value in fresh water				0,001	mç	g/l		
Normal value in marine wate	۶r			0	mç	g/l		
Normal value for fresh water	sediment			9,27	mg	g/kg		
Normal value for marine water sediment			0,927	mį				
Normal value for water, intermittent release			0,001	mg/l				
Normal value of STP microo	rganisms			0,4	mg/l			
Normal value for the terrestr	ial compartment			7	mg/kg			
Health - Derived no-effe	ect level - DNEL / D Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,83 mg/kg		Systemic		Systemic
nhalation				bw/d 0,98 mg/m3				3,32 mg/m3
Skin				2,83 mg/kg				4,7 mg/kg
				bw/d				bw/d
[3R-(3α,3aβ,6β,7β,8aα)]	-octahvdro-6-meth	noxv-3.6.8.8-tetra	methvl-1H-3a.	7-methanoazı	llene			
Predicted no-effect concentr								
Normal value in fresh water	nal value in fresh water		0,43	μg				
Normal value in marine wate	ormal value in marine water		0,043	μg/L				
Normal value for fresh water sediment			1,29	mg/kg				
Normal value for marine water sediment		0,129	mg/kg					
Normal value of STP microorganisms			100	mg/l				
Normal value for the terrestrial compartment			0,257	mg/kg				
Health - Derived no-effe	ect level - DNEL / D Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,7 mg/kg		Systemic		Systemic
				bw/d 4,7 mg/m3				16,1 mg/m3
Inhalation								
			1220 µa/cm²	-			2030 µa/cm <sup>2</sup>	
Inhalation Skin			1220 µg/cm²	2,7 mg/kg bw/d			2030 µg/cm <sup>2</sup>	4,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC a ailable; NEA = no exposure ex ected; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over p rsonal protec ive equipmen, make sure t at the workplace is well aire through effective local aspiration



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When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

# ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

# **SECTION 9.** Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Viscous emulsion	Method: visual
		Remark: atmospheric pressure: 101,325 kPa
		Temperature: 20° C
Colour	White	Method: visual
Odour	Not available	
Odour threshold	Not available	
рН	4,00 - 4,50	Method: pHmeter Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60° C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: there are not components with explosive properties



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Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	Not available	
Density	0,94 +/- 0,02 g/mL	Method: Picnometer
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	80000 - 120000 cps	Method: Brookfield RV HS93 – 5 RPM
		Temperature: 23° C
Explosive properties	Not applicable	Remark: there aren't components with explosive properties
Oxidising properties	Not applicable	Remark: there aren't components with oxidising properties

#### 9.2. Other information

Information not available

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

Information not available

# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological



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effects of exposure to the product.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: >2000 mg/kg

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

LD50 (Oral) > 2000 mg/kg Similar to OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg Read-across EPA OPPTS 870.1200 - ECHA

Cetrimonium chloride

LD50 (Oral) 699 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) 528 mg/kg OECD Guideline 402 - ECHA

 $[3R-(3\alpha,3a\beta,6\beta,7\beta,8a\alpha)] - octahydro-6 - methoxy-3,6,8,8 - tetramethyl-1H-3a,7 - methanoazulene \ LD50$ 

(Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides

LD50 (Oral) 690 mg/kg OECD Guideline 401 - ECHA



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Alcohols, C16-18, ethoxylated

LD50 (Oral) > 2000 mg/kg

Tetradecanol

LD50 (Oral) > 2000 mg/kg OECD 401

LD50 (Dermal) > 2000 mg/kg rabbit

LC50 (Inhalation) 1,05 mg/l/1h rat

# SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

# RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene GERM

### CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class



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# **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

### 12.1. Toxicity

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides LC50 - for Fish 3,48 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA EC50 - for Crustacea 1,39 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA EC50 - for Algae / Aquatic Plants 3,48 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA EC10 for Algae / Aquatic Plants 0,78 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA Chronic NOEC for Fish 0,24 mg/l Species: Danio rerio. OECD Guideline 212, duration 9 days - ECHA Chronic NOEC for Crustacea 0,128 mg/l Species: Daphnia magna. OECD Guideline 211 - ECHA Cetrimonium chloride LC50 - for Fish > 0,59 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA EC50 - for Crustacea 0,09 mg/l/48h Species: Daphnia magna, Read-across, similar to OECD Guideline 202 - ECHA EC50 - for Algae / Aquatic Plants 0,13 mg/l/72h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA EC10 for Algae / Aquatic Plants 0,104 mg/l/96h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA Chronic NOEC for Fish 0,0322 mg/l Species: Pimephales promelas. U.S. EPA FIFRA 72-4(a) - ECHA Chronic NOEC for Crustacea 0,0068 mg/l Species: Daphnia magna. Read-across, similar to OECD Guideline 211 -ECHA  $[3R-(3\alpha,3a\beta,6\beta,7\beta,8a\alpha)]$ -octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

LC50 - for Fish	0,43 mg/l/96h Species: Cyprinus carpio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,48 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA

EC10 for Algae / Aquatic Plants Chronic NOEC for Algae / Aquatic Plants

Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides LC50 - for Fish 0,26 mg/l/96h ECHA

Tetradecanol LC50 - for Fish Chronic NOEC for Crustacea

> 1 mg/l/96h OECD 203 - ECHA 0,006 mg/l OECD Guideline 211 - ECHA

0,51 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA

### 12.2. Persistence and degradability

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Solubility in water Rapidly degradable OECD Guideline 301 B - ECHA 10 mg/l ISO 4311, temp. 25° C pH 5,4 - ECHA



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Cetrimonium chloride	
Solubility in water	240 mg/l Temp. 25° C pH 7 - ECHA
Rapidly degradable OECD Guideline 301 B - ECHA	
[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetrame	ethyl-1H-3a,7-methanoazulene
Solubility in water	4,3 mg/l Similar to OECD Guideline 105, temp. 24° C - ECHA
Rapidly degradable OECD Guideline 301 D - ECHA	
Quaternary ammonium compounds, di-C12-18-alkyldimethyl,	chlorides
Rapidly degradable OECD guideline 301D - ECHA	
Tetradecanol	
Rapidly degradable	
12.3. Bioaccumulative potential	
Quaternary ammonium compounds, C20-22-alkyltrimethyl, ch	lorides
Partition coefficient: n-octanol/water	3,29 Calculation method, temp. 20° C pH 5,4 - ECHA
Cetrimonium chloride	
Partition coefficient: n-octanol/water	3,08 Temp. 25° C - ECHA
BCF	79 Read-across, EPA OPP 165-4 - ECHA
[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetrame	ethyl-1H-3a,7-methanoazulene
Partition coefficient: n-octanol/water	5,1 Similar to OECD Guideline 117, temp. 25° C - ECHA
BCF	1510 L/kg ww QSAR model - ECHA
12.4. Mobility in soil	
Information not available	
12.5. Results of PBT and vPvB assessment	
On the basis of available data, the product does not contain any	PBT or vPvB in percentage greater than 0,1%.
12.6. Other adverse effects	
Information not available	

**SECTION 13.** Disposal considerations

# 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.



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Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

# **SECTION 15. Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

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Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

# **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.



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H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- Regulation (EC) 1272/2008 (CLP) of the European Parliament
   Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP) The Merck Index. 10th Edition



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- Handling Chemical Safety

- INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology

N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 IFA GESTIS website

- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.



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	Safety Data Sheet
Accord	ling to Annex II to REACH - Regulation 2015/830
SECTION 1. Identification of the subs	stance/mixture and of the company/undertaking
1.1. Product identifier Code:	0010844
Product name	WHF HYDRA MASK
1.2. Relevant identified uses of the substance or m Intended use Mixture for cosmetic	•
	use
1.3. Details of the supplier of the safety data sheet	
Name	G.V.F. – GIVIEFFE S.P.A.
Full address District and Country	Via Giovanni Falcone, 8 20080 Vernate (MI)
	Italy
	phone 0039 0290093743
	fax 0039 0290093740
e-mail address of the competent person	
responsible for the Safety Data Sheet	sarah.pizzolato@itelyhairfashion.it
1.4. Emergency telephone number For urgent inquiries refer to	Available 24 hours/day, 7/7 days:
Tor digent inquines relet to	CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma): +39
	0668593726
	Az. Osp. Univ. Foggia (Foggia): +39 800183459 Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870
	CAV Policlinico "Umberto I" (Roma): +39 0649978000
	CAV Policlinico "A. Gemelli" (Roma): +39 063054343 Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0557947819
	CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444
	Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300
	European emergency number: 112 (Available 24 hours/day, 7/7 days)

# **SECTION 2. Hazards identification**

# 2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

# 2.2. Label elements

Hazard pictograms: --



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Signal words:

Hazard statements:

Precautionary statements:

Avoid release to the environment.

Product not intended for uses provided for by Dir. 2004/42/CE.

# 2.3. Other hazards

P273

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

# **SECTION 3. Composition/information on ingredients**

# 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Alcohols, C16-18, ethoxylated		
CAS 68439-49-6	$0,1 \le x < 2,5$	Eye Irrit. 2 H319
EC 500-212-8		
INDEX -		
Tetradecanol		
CAS 112-72-1	0,1 ≤ x < 1	Eye Irrit. 2 H319, Aquatic Chronic 1 H410 M=1
EC 204-000-3		
INDEX -		
Reg. no. 01-2119485910-33-0000		
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides CAS 68607-24-9	0,1 ≤ x < 0,9	STOT RE 2 H373, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC 271-756-9		
INDEX -		
Reg. no. 01-2119484817-22		
Quaternary ammonium compounds, di-C12-18- alkyldimethyl, chlorides CAS 68391-05-9 EC 269-924-1 INDEX -	0,1 ≤ x < 0,6	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1



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Cetrimonium chloride		
CAS 112-02-7	0,01 ≤ x < 0,5	Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1
EC 203-928-6		
INDEX -		
Reg. no. 01-2119970558-23		
[3R-(3α,3aβ,6β,7β,8aα)]- octahydro-6-methoxy-3,6,8,8- tetramethyl-1H-3a,7- methanoazulene		
CAS 19870-74-7	0,01 ≤ x < 0,2	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 243-384-7		

INDEX -

Reg. no. 01-2120228335-61

The full wording of hazard (H) phrases is given in section 16 of the sheet.

# **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

# **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.



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### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

# **SECTION 6.** Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available



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# **SECTION 8. Exposure controls/personal protection**

# 8.1. Control parameters

Tetradecanol								
Predicted no-effect concentra	tion - PNEC							
Normal value in fresh water				0,00032	mg	g/l		
Normal value in marine water				0,000032	mç	g/l		
Normal value for fresh water	sediment			0,36	mç	g/kg		
Normal value for marine wate	r sediment			0,036	mg	g/kg		
Health - Derived no-effe	ct level - DNEL / D	MEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Dral		75 mg/kg bw/d		75 mg/kg bw/d				
nhalation		65 mg/m3		65 mg/m3		220 mg/m3		220 mg/m3
Skin		75 mg/kg bw/d		75 mg/kg bw/d		125 mg/kg bw/d		125 mg/kg bw/d
Quaternary ammonium	compounds, C20·	22-alkyltrimethy	l, chlorides					
Predicted no-effect concentra	tion - PNEC							
Normal value in fresh water				13	μg	/L		
Normal value in marine water				1,3	μg	/L		
Normal value for fresh water	sediment			1,25	mg	g/kg		
Normal value for marine wate	r sediment			125	μg	/kg		
Normal value for water, intern	nittent release			14	μg	/L		
Normal value of STP microorganisms			430	μg	/L			
Normal value for the food chain (secondary poisoning)			6,7	mç	j/kg			
Normal value for the terrestrial compartment					mg	g/kg		
Health - Derived no-effe	ct level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
nhalation				Systemic		Systemic		0,49 mg/m3
Skin								1,7 mg/kg bw/d
Quaternary ammonium Predicted no-effect concentra		12-18-alkyldimet	hyl, chlorides					
Normal value in fresh water				0,013	mç	g/l		
Normal value in marine water				0,0013	mç	g/I		
Normal value for fresh water	sediment			8,8	mç	j/kg		
Normal value for marine wate	r sediment			0,88	mg	j/kg		
Normal value for water, intern	nittent release			0,0026	mç	g/l		
Normal value of STP microor	ganisms			1,2	mç	g/I		



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	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Dral				2,3 mg/kg bw/d		Systemic		Systemic
nhalation				bw/d				27 mg/m3
Skin				7,65 mg/kg bw/d				12,75 mg/kg bw/d
				bw/d				bw/d
Cetrimonium chloride								
Predicted no-effect concentra	ition - PNEC							
Normal value in fresh water				0,001	mg	J/I		
Normal value in marine water				0	mg	J/I		
Normal value for fresh water s				9,27		ı/kg		
Normal value for marine wate	er sediment			0,927	mg	ı/kg		
Normal value for water, interm				0,001	mg	<b>j/l</b>		
Normal value of STP microorg	-			0,4	mg	<b>j/l</b>		
Normal value for the terrestria	•			7	mg	j/kg		
Health - Derived no-effe	ct level - DNEL / D Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,83 mg/kg bw/d		-		-
nhalation				0,98 mg/m3				3,32 mg/m3
Inhalation Skin				0,98 mg/m3 2,83 mg/kg				4,7 mg/kg
				0,98 mg/m3				
Skin [3R-(3α,3aβ,6β,7β,8aα)]-		oxy-3,6,8,8-tetra	methyl-1H-3a,	0,98 mg/m3 2,83 mg/kg bw/d	ilene			
		ioxy-3,6,8,8-tetra	methyl-1H-3a,	0,98 mg/m3 2,83 mg/kg bw/d	ilene			4,7 mg/kg
Skin [ <b>3R-(3α,3aβ,6β,7β,8aα)]-</b> Predicted no-effect concentra		ioxy-3,6,8,8-tetra	methyl-1H-3a,	0,98 mg/m3 2,83 mg/kg bw/d	<b>ilene</b> µg,	<u>″∟</u>		4,7 mg/kg
Skin <b>[3R-(3α,3aβ,6β,7β,8aα)]-</b> Predicted no-effect concentra Normal value in fresh water	tion - PNEC	ioxy-3,6,8,8-tetra	methyl-1H-3a,	0,98 mg/m3 2,83 mg/kg bw/d 7-methanoazu				4,7 mg/kg
Skin <b>[3R-(3α,3aβ,6β,7β,8aα)]-</b> Predicted no-effect concentra Normal value in fresh water Normal value in marine water	ition - PNEC	ioxy-3,6,8,8-tetra	methyl-1H-3a,	0,98 mg/m3 2,83 mg/kg bw/d 7-methanoazu 0,43	hð hð			4,7 mg/kg
Skin [3R-(3α,3aβ,6β,7β,8aα)]-	ition - PNEC	ioxy-3,6,8,8-tetra	methyl-1H-3a,	0,98 mg/m3 2,83 mg/kg bw/d 7-methanoazu 0,43 0,043	mð hð hð	/L		4,7 mg/kg
Skin [ <b>3R-(3α,3aβ,6β,7β,8aα)]-</b> Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s	sediment	ioxy-3,6,8,8-tetra	methyl-1H-3a,	0,98 mg/m3 2,83 mg/kg bw/d 7-methanoazu 0,43 0,043 1,29	mð hð hð	/L j/kg j/kg		4,7 mg/kg
Skin [3R-(3α,3aβ,6β,7β,8aα)]- Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value for STP microorg Normal value for the terrestria	ition - PNEC sediment r sediment ganisms al compartment		methyl-1H-3a,	0,98 mg/m3 2,83 mg/kg bw/d 7-methanoazu 0,43 0,043 1,29 0,129	wê wê hâ	/L j/kg j/kg		4,7 mg/kg
Skin [ <b>3R-(3α,3aβ,6β,7β,8aα)]-</b> Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microor	ition - PNEC sediment er sediment ganisms al compartment <b>ct level - DNEL / C</b> Effects on		methyl-1H-3a,	0,98 mg/m3 2,83 mg/kg bw/d 7-methanoazu 0,43 0,043 1,29 0,129 100	μg, μg, mg mg mg mg	/L J/kg J/kg		4,7 mg/kg
Skin [3R-(3α,3aβ,6β,7β,8aα)]- Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value for STP microorg Normal value for the terrestria	ition - PNEC sediment r sediment ganisms al compartment <b>ct level - DNEL / D</b>		methyl-1H-3a,	0,98 mg/m3 2,83 mg/kg bw/d 7-methanoazu 0,43 0,043 1,29 0,129 100 0,257 Chronic	ան ան ան ից,	/L /kg /kg /l /kg Acute	Chronic local	4,7 mg/kg bw/d
Skin [ <b>3R-(3α,3aβ,6β,7β,8aα)]-</b> Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria Health - Derived no-effect	ition - PNEC sediment er sediment ganisms al compartment <b>ct level - DNEL / D</b> Effects on consumers	MEL		0,98 mg/m3 2,83 mg/kg bw/d 7-methanoazu 0,43 0,043 1,29 0,129 100 0,257 Chronic systemic 2,7 mg/kg	µg پو سو شو شو شو Effects on workers	/L /kg /kg /l /kg	Chronic local	4,7 mg/kg bw/d
Skin <b>(3R-(3α,3aβ,6β,7β,8aα)]-</b> Predicted no-effect concentra Normal value in fresh water Normal value in marine water Normal value for fresh water s Normal value for marine wate Normal value of STP microorg Normal value for the terrestria <b>Health - Derived no-effect</b> Route of exposure	ition - PNEC sediment er sediment ganisms al compartment <b>ct level - DNEL / D</b> Effects on consumers	MEL		0,98 mg/m3 2,83 mg/kg bw/d 7-methanoazu 0,43 0,043 1,29 0,129 100 0,257 Chronic systemic	µg پو سو شو شو شو Effects on workers	/L /kg /kg /l /kg Acute	Chronic local	4,7 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC a ailable; NEA = no exposure ex ected; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over p rsonal protec ive equipmen, make sure t at the workplace is well aire through effective local aspiration



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When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

# ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

# **SECTION 9.** Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Viscous emulsion	Method: visual
		Remark: atmospheric pressure: 101,325 kPa
		Temperature: 20° C
Colour	White	Method: visual
Odour	Not available	
Odour threshold	Not available	
рН	3,50 - 4,50	Method: pHmeter Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60° C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: there are not components with explosive properties



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. 8			
	Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
	Vapour pressure	Not available	
	Vapour density	Not available	
	Relative density	Not available	
	Density	0,94 +/- 0,02 g/mL	Method: Picnometer
	Solubility	Not available	
	Partition coefficient: n-octanol/w	water Not available	
	Auto-ignition temperature	Not available	
	Decomposition temperature	Not available	
	Viscosity	80000 - 120000 cps	Method: Brookfield RV HS93 – 5 RPM
			Temperature: 23° C
	Explosive properties	Not applicable	Remark: there aren't components with explosive properties
	Oxidising properties	Not applicable	Remark: there aren't components with oxidising properties

#### 9.2. Other information

Information not available

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

Information not available

# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological



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effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: >2000 mg/kg

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

LD50 (Oral) > 2000 mg/kg Similar to OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg Read-across EPA OPPTS 870.1200 - ECHA

Cetrimonium chloride

LD50 (Oral) 699 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) 528 mg/kg OECD Guideline 402 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene LD50

(Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA



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Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides

LD50 (Oral) 690 mg/kg OECD Guideline 401 - ECHA

Alcohols, C16-18, ethoxylated

LD50 (Oral) > 2000 mg/kg

### Tetradecanol

LD50 (Oral) > 2000 mg/kg OECD 401

LD50 (Dermal) > 2000 mg/kg rabbit

LC50 (Inhalation) 1,05 mg/l/1h rat

# SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

**RESPIRATORY OR SKIN SENSITISATION** 

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene GERM

CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class



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# ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

# **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

# 12.1. Toxicity

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides
---

LC50 - for Fish	3,48 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	1,39 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	3,48 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,78 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,24 mg/l Species: Danio rerio. OECD Guideline 212, duration 9 days - ECHA
Chronic NOEC for Crustacea	0,128 mg/l Species: Daphnia magna. OECD Guideline 211 - ECHA
Cetrimonium chloride	

Cetrimonium chioride	
LC50 - for Fish	> 0,59 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,09 mg/l/48h Species: Daphnia magna, Read-across, similar to OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	0,13 mg/l/72h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,104 mg/l/96h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,0322 mg/l Species: Pimephales promelas. U.S. EPA FIFRA 72-4(a) - ECHA
Chronic NOEC for Crustacea	0,0068 mg/l Species: Daphnia magna. Read-across, similar to OECD Guideline 211 - ECHA

 $[3R-(3\alpha,3a\beta,6\beta,7\beta,8a\alpha)] - octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene$ 

LC50 - for Fish	0,43 mg/l/96h Species: Cyprinus carpio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,48 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
Chronic NOEC for Algae / Aquatic Plants	0,51 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA

Quaternary ammonium compounds, di-C12-18-alkyldimethyl, chlorides LC50 - for Fish 0,26 mg/l/96h ECHA

Tetradecanol LC50 - for Fish Chronic NOEC for Crustacea

> 1 mg/l/96h OECD 203 - ECHA 0,006 mg/l OECD Guideline 211 - ECHA



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# 12.2. Persistence and degradability

Quaternary ammonium compounds, C20-22-alkyltrimethyl, ch	
Solubility in water	10 mg/l ISO 4311, temp. 25° C pH 5,4 - ECHA
Rapidly degradable OECD Guideline 301 B - ECHA	
Cetrimonium chloride	
Solubility in water	240 mg/l Temp. 25° C pH 7 - ECHA
Rapidly degradable OECD Guideline 301 B - ECHA	
[3R-(3a,3ab,6b,7b,8aa)]-octahydro-6-methoxy-3,6,8,8-tetram	ethyl-1H-3a,7-methanoazulene
Solubility in water	4,3 mg/l Similar to OECD Guideline 105, temp. 24° C - ECHA
Rapidly degradable OECD Guideline 301 D - ECHA	
Quaternary ammonium compounds, di-C12-18-alkyldimethyl,	chlorides
Rapidly degradable OECD guideline 301D - ECHA	
Tetradecanol	
Rapidly degradable	
12.3. Bioaccumulative potential	
Quaternary ammonium compounds, C20-22-alkyltrimethyl, ch	lorides
Partition coefficient: n-octanol/water	3,29 Calculation method, temp. 20° C pH 5,4 - ECHA
Cetrimonium chloride	
Partition coefficient: n-octanol/water	3,08 Temp. 25° C - ECHA
BCF	79 Read-across, EPA OPP 165-4 - ECHA
[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetram	ethyl-1H-3a,7-methanoazulene
Partition coefficient: n-octanol/water	5,1 Similar to OECD Guideline 117, temp. 25° C - ECHA
BCF	1510 L/kg ww QSAR model - ECHA
12.4. Mobility in soil	
Information not available	
12.5. Results of PBT and vPvB assessment	
On the basis of available data, the product does not contain any	PBT or vPvB in percentage greater than 0,1%.
12.6. Other adverse effects	

Information not available



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# **SECTION 13.** Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

# **SECTION 15.** Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None



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 Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

 Product Point
 3 - 40

 Substances in Candidate List (Art. 59 REACH)

 On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

 Substances subject to authorisation (Annex XIV REACH)

 None

 Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

 None

 Substances subject to the Rotterdam Convention:

 None

 Substances subject to the Rotterdam Convention:

 None

 Substances subject to the Stockholm Convention:

 None

 Substances subject to the Stockholm Convention:

 None

 Substances subject to the Stockholm Convention:

 None

Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

# **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1



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Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament

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12. Regulation (EU) 2016/1179 (IX Atp. CLP)

13. Regulation (EU) 2017/776 (X Atp. CLP)

14. Regulation (EU) 2018/669 (XI Atp. CLP) 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)

16. Regulation (EU) 2019/521 (XII Atp. CLP)

- The Merck Index. - 10th Edition - Handling Chemical Safety

- INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology

- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

- IFA GESTIS website

- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.



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	Safety Data Sheet According to Annex II to REACH - Regulation 2015/83	0
<b>SECTION 1. Identific</b>	ation of the substance/mixture and of the compa	ny/undertaking
<b>1.1. Product identifier</b> Code: Product name	0010845 AMPLIFICO HYDRA MASK	
1.2. Relevant identified uses Intended use	of the substance or mixture and uses advised against Mixture for cosmetic use	
<b>1.3. Details of the supplier o</b> Name Full address District and Country	f the safety data sheet G.V.F. – GIVIEFFE S.P.A. Via Giovanni Falcone, 8 20080 Vernate (MI) Italy phone 0039 0290093743	
	fax 0039 0290093740	
e-mail address of the compete	nt person	
responsible for the Safety Data	a Sheet sarah.pizzolato@itelyhairfashion.it	
<b>1.4. Emergency telephone n</b> For urgent inquiries refer to	Available 24 hours/day, 7/7 days:	72870 649978000 63054343 ca (Firenze): +39 0557947819 sicologica (Pavia): +39 038224444 dergamo): +39 800883300

# **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



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Hazard pictograms:					
Signal words: Hazard statements:					
Precautionary statements:					
<b>P273</b> Av	oid release to the environn	nent.			
	IN EYES: Rinse cautiously sing.	with water for several minutes. Remove contact lenses, if prese	nt and easy to do. Continue		
Contains: Qu	uaternary ammonium comp	oounds, C20-22-alkyltrimethyl, chlorides			
Product not intended for uses p	rovided for by Dir. 2004/42	/CE.			
2.3. Other hazards					
On the basis of available data, t	he product does not contai	n any PBT or vPvB in percentage greater than 0,1%.			
SECTION 3. Compos	sition/information	on ingredients			
3.2. Mixtures					
Contains:					
Identification	x = Conc. %	Classification 1272/2008 (CLP)			
Quaternary ammonium compounds, C20-22-alkyltrin chlorides CAS 68607-24-9	nethyl, 3 ≤ x < 3,5	STOT RE 2 H373, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aqua	atic Acute 1 H400		
EC 271-756-9 INDEX -		M=1, Aquatic Chronic 2 H411			
Reg. no. 01-2119484817-22 Dimethylsiloxane, polymer, ((2-aminoethyl)amino)propyl dimethoxysilyl)oxy)-terminate CAS 71750-80-6	)-	1 ≤ x < 1,5 Eye Irrit. 2 H319			
EC 615-337-4 INDEX -					



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Cetrimonium chloride CAS 112-02-7 Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1  $0,2 \le x < 0,25$ H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1 EC 203-928-6 INDEX -Reg. no. 01-2119970558-23-0000 [3R-(3α,3aβ,6β,7β,8aα)]octahydro-6-methoxy-3,6,8,8tetramethyl-1H-3a,7methanoazulene CAS 19870-74-7  $0,1 \le x < 0,15$ Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1EC 243-384-7

INDEX -

Reg. no. 01-2120228335-61

The full wording of hazard (H) phrases is given in section 16 of the sheet.

# **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

# **SECTION 5. Firefighting measures**

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.



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### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

# **SECTION 6.** Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available



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# **SECTION 8. Exposure controls/personal protection**

# 8.1. Control parameters

Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				13	μg	/L		
Normal value in marine water				1,3	hð	/L		
Normal value for fresh water se	diment			1,25	m	g/kg		
Normal value for marine water	sediment			125	hð	/kg		
Normal value for water, intermit	ttent release			14	hð	/L		
Normal value of STP microorga	anisms			430	μg	/L		
Normal value for the food chain	(secondary poisoni	ing)		6,7	mį	g/kg		
Normal value for the terrestrial	compartment			1	m	g/kg		
Health - Derived no-effect	t <b>level - DNEL / D</b> Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
nhalation				-)		-)		0,49 mg/m3
Skin								1,7 mg/kg bw/d
Cetrimonium chloride Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				0,00068	m	g/I		
Normal value in marine water				0,000068	m	g/I		
Normal value for fresh water se	ediment			9,27	mį	g/kg		
Normal value for marine water	sediment			0,927	m	g/kg		
Normal value for water, intermit	ttent release			0,0008	m	g/I		
Normal value of STP microorga	anisms			0,4	m	g/l		
Health - Derived no-effect	E <b>level - DNEL / D</b> Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Dral				2,83 mg/kg/d				
nhalation				0,98 mg/m3				3,32 mg/m3
Skin				2,83 mg/kg/d				4,7 mg/kg/d
[ <b>3R-(3α,3aβ,6β,7β,8aα)]-o</b> Predicted no-effect concentration		noxy-3,6,8,8-tetra	methyl-1H-3a,	7-methanoazu	lene			
realeted no encor concentration				0.40		/1		
Normal value in freeh water								
Normal value in fresh water Normal value in marine water				0,43	рд рц			

0,129

mg/kg

 Normal value of STP microorganisms
 100
 mg/l

 Normal value for the terrestrial compartment
 0,257
 mg/kg

Normal value for marine water sediment



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Health - Derived no-effect level - DNEL / DMEL										
	Effects on				Effects on					
	consumers				workers					
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic		
				systemic		systemic		systemic		
Oral				2,7 mg/kg						
				bw/d						
Inhalation				4,7 mg/m3				16,1 mg/m3		
Skin			1220 µg/cm²	2,7 mg/kg			2030 µg/cm²	4,5 mg/kg		
				bw/d				bw/d		

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

# **SECTION 9.** Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance

Viscous emulsion

Method: visual



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		Remark: atmospheric pressure: 101,325 kPa
		Temperature: 20° C
Onlaw		•
Colour Odour	White Floral - fresh - fruity - musk	Method: visual Method: olfactory
		Method. Oractory
Odour threshold	Not available	
pH	3,80 - 4,60	Method: pHmetro Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: there are not components with explosive properties
Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	0,95 +/- 0,02 g/mL	Method: Picnometer
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	20000 - 40000 cps	Method: Brookfield RV S06 - 5RPM Temperature: 23° C
Explosive properties	Not explosive	Remark: there aren't components with explosive properties
Oxidising properties	Not oxidising	Remark: there aren't components with oxidising properties

# 9.2. Other information

VOC: 0,03 g/mL - 3,01%

# **SECTION 10. Stability and reactivity**

# 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

# 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.



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### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: >2000 mg/kg

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

LD50 (Oral) > 2000 mg/kg Similar to OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg Read-across EPA OPPTS 870.1200 - ECHA



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[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene LD50

(Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

### Cetrimonium chloride

LD50 (Oral) 1550 mg/kg rat OECD 401

LD50 (Dermal) 528 mg/kg OECD 402

### **SKIN CORROSION / IRRITATION**

Does not meet the classification criteria for this hazard class

### **SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye damage

### **RESPIRATORY OR SKIN SENSITISATION**

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene GERM

#### CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class



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# **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

# 12.1. Toxicity Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides LC50 - for Fish 3,48 mg/l/96h Specie: Danio rerio. OECD Guideline 203 - ECHA 1,39 mg/l/48h Specie: Daphnia magna. OECD Guideline 202 - ECHA EC50 - for Crustacea EC50 - for Algae / Aquatic Plants 3,48 mg/l/72h Specie: Desmodesmus subspicatus. OECD Guideline 201 - ECHA EC10 for Algae / Aquatic Plants 0,78 mg/l/72h Specie: Desmodesmus subspicatus. OECD Guideline 201 - ECHA Chronic NOEC for Fish 0,24 mg/l Specie: Danio rerio. OECD Guideline 212, duration 9 days - ECHA Chronic NOEC for Crustacea 0,128 mg/l Specie: Daphnia magna. OECD Guideline 211 - ECHA $[3R-(3\alpha,3a\beta,6\beta,7\beta,8a\alpha)]$ -octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene LC50 - for Fish 0,43 mg/l/96h Specie: Cyprinus carpio. OECD Guideline 203 - ECHA EC50 - for Crustacea 0,48 mg/l/48h Specie: Daphnia magna. OECD Guideline 202 - ECHA EC50 - for Algae / Aquatic Plants > 1,8 mg/l/72h Specie: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA EC10 for Algae / Aquatic Plants 0,7 mg/l/72h Specie: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA Chronic NOEC for Algae / Aquatic Plants 0,51 mg/l Specie: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA Cetrimonium chloride LC50 - for Fish > 0,7 mg/l/96h barbo zebrato, OECD 203 EC50 - for Crustacea 0,09 mg/l/48h Daphnia magna, OECD 202 12.2. Persistence and degradability Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides Solubility in water 10 mg/l ISO 4311, temp. 25° C pH 5,4 - ECHA Rapidly degradable OECD Guideline 301 B - ECHA $[3R-(3\alpha,3a\beta,6\beta,7\beta,8a\alpha)] - octahydro-6 - methoxy-3,6,8,8 - tetramethyl-1H-3a,7 - methanoazulene$ 4,3 mg/l Similar to OECD Guideline 105, temp. 24° C - ECHA Solubility in water Rapidly degradable OECD Guideline 301 D - ECHA Cetrimonium chloride Rapidly degradable 12.3. Bioaccumulative potential Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides Partition coefficient: n-octanol/water 3,29 Calculation method, temp. 20° C pH 5,4 - ECHA [3R-(3a,3a,6b,7b,8aa)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene Partition coefficient: n-octanol/water 5,1 Similar to OECD Guideline 117, temp. 25° C - ECHA



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H	A	1				-	Н	0
		-	= ٨	AIL/	ANC	219	987	

#### BCF

1510 L/kg ww QSAR model - ECHA

Cetrimonium chloride Partition coefficient: n-octanol/water

< 4

### 12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable



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#### 14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.



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### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train



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- TLV: Threshold Limit Value

- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.

- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- Regulation (EU) 2015/830 of the European Parliament
   Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.



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Safety Data Sheet					
Accor	ding to Annex II to REACH - Regulation 2015/830				
SECTION 1. Identification of the sub	stance/mixture and of the company/undertaking				
1.1. Product identifier Code:	0010846				
Product name	WHF AMPLIFICO REVITA MASK				
1.2. Relevant identified uses of the substance or r Intended use Mixture for cosmetic					
1.3. Details of the supplier of the safety data shee Name	t G.V.F. – GIVIEFFE S.P.A.				
Full address	Via Giovanni Falcone, 8				
District and Country	20080 Vernate (MI) Italy				
	phone 0039 0290093743				
	fax 0039 0290093740				
e-mail address of the competent person					
responsible for the Safety Data Sheet	sarah.pizzolato@itelyhairfashion.it				
1.4. Emergency telephone number					
For urgent inquiries refer to	Available 24 hours/day, 7/7 days:				
	CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma): +39 0668593726				
	Az. Osp. Univ. Foggia (Foggia): +39 800183459				
	Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870 CAV Policlinico "Umberto I" (Roma): +39 0649978000				
	CAV Policlinico "A. Gemelli" (Roma): +39 063054343				
	Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0557947819				
	CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444 Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300				
	European emergency number: 112 (Available 24 hours/day, 7/7 days)				

### **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

2.2. Label elements



Hazard pictograms:

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Signal words: Hazard statements: Precautionary statements: P273 Avoid release to the environment. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. P310 Contains: Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides Product not intended for uses provided for by Dir. 2004/42/CE. 2.3. Other hazards On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%. **SECTION 3. Composition/information on ingredients** 3.2. Mixtures Contains: Identification x = Conc. % Classification 1272/2008 (CLP) Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides CAS 68607-24-9  $3 \le x < 3,5$ STOT RE 2 H373, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411 EC 271-756-9 INDEX -Reg. no. 01-2119484817-22 Dimethylsiloxane, polymer, (((3-((2-aminoethyl)amino)propyl)dimethoxysilyl)oxy)-terminated CAS 71750-80-6  $2 \le x < 2,5$ Eye Irrit. 2 H319 EC 615-337-4 INDEX -



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Cetrimonium chloride		
CAS 112-02-7	$0,35 \le x < 0,4$	Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1
EC 203-928-6		
INDEX -		
Reg. no. 01-2119970558-23		
[3R-(3α,3aβ,6β,7β,8aα)]- octahydro-6-methoxy-3,6,8,8- tetramethyl-1H-3a,7- methanoazulene		
CAS 19870-74-7	0,1 ≤ x < 0,15	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 243-384-7		
INDEX -		
Reg. no. 01-2120228335-61		
Cetrimonium chloride		
CAS 112-02-7	$0,1 \le x < 0,15$	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1
EC 203-928-6		
INDEX -		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.



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#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### **SECTION 6.** Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available



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8.1. Control parameters								
Quaternary ammonium ( Predicted no-effect concentra		-22-alkyltrimethy	, chlorides					
Normal value in fresh water				13	μg	/L		
Normal value in marine water				1,3	μg	/L		
Normal value for fresh water s	sediment			1,25	mg	ı/kg		
Normal value for marine wate	r sediment			125	μg	/kg		
Normal value for water, interm	nittent release			14	μg	/L		
Normal value of STP microorg	ganisms			430	μg	/L		
Normal value for the food cha	in (secondary poison	ing)		6,7	mç	ı/kg		
Normal value for the terrestria	al compartment			1	mg	ı/kg		
Health - Derived no-effe	ct level - DNEL / [	OMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
nhalation Skin								0,49 mg/m3
Cetrimonium chloride Predicted no-effect concentra	ition - PNEC							
Normal value in fresh water				0,001	mç	ı/l		
Normal value in marine water				0	mg			
Normal value for fresh water s	sediment			9,27	mg	ı/kg		
Normal value for marine wate	r sediment			0,927	mg	ı/kg		
Normal value for water, interm	nittent release			0,001	mg	ı/l		
Normal value of STP microorg	ganisms			0,4	mg	ı/l		
Normal value for the terrestria	al compartment			7	mg	ı/kg		
Health - Derived no-effe	ct level - DNEL / D Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Dral				systemic 2,83 mg/kg bw/d		systemic		systemic
nhalation				0,98 mg/m3				3,32 mg/m3
Skin				2,83 mg/kg bw/d				4,7 mg/kg bw/d
		hoxy-3,6,8,8-tetra	methyl-1H-3a,	7-methanoazu	llene			
				0,43	μg	/L		
Predicted no-effect concentra				0,043	μg	/L		
[ <b>3R-(3α,3aβ,6β,7β,8aα)]-</b> Predicted no-effect concentra Normal value in fresh water Normal value in marine water								
Predicted no-effect concentra Normal value in fresh water				1,29	mg	ı/kg		
Predicted no-effect concentra Normal value in fresh water Normal value in marine water	sediment			1,29 0,129		ı/kg ı/kg		



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Normal value for the terrestrial compartment				0,257	mg	/kg		
Health - Derived no-effect I								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,7 mg/kg bw/d				
Inhalation				4,7 mg/m3				16,1 mg/m3
Skin			1220 µg/cm <sup>2</sup>	2,7 mg/kg bw/d			2030 µg/cm²	4,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.



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# **SECTION 9.** Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Viscous emulsion	Method: visual Remark: atmospheric pressure: 101,325 kPa Temperature: 20° C
Colour	White	Method: visual
Odour	Floral - fresh - fruity - musk	Method: olfactory
Odour threshold	Not available	
рН	3,80 - 4,60	Method: pHmetro Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: there are not components with explosive properties
Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	0,95 +/- 0,02 g/mL	Method: Picnometer
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	20000 - 40000 cps	Method: Brookfield RV S06 - 5RPM Temperature: 23° C
Explosive properties	Not explosive	Remark: there aren't components with explosive properties
Oxidising properties	Not oxidising	Remark: there aren't components with oxidising properties

#### 9.2. Other information

VOC: 0,0349 g/mL – 3,499%

### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.



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#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: >2000 mg/kg



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Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

LD50 (Oral) > 2000 mg/kg Similar to OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg Read-across EPA OPPTS 870.1200 - ECHA

#### Cetrimonium chloride

LD50 (Oral) 699 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) 528 mg/kg OECD Guideline 402 - ECHA

[3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene LD50

(Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

**RESPIRATORY OR SKIN SENSITISATION** 

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene GERM

#### CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class



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#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

### **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

#### 12.1. Toxicity

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlo
--

LC50 - for Fish	3,48 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	1,39 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	3,48 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,78 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,24 mg/l Species: Danio rerio. OECD Guideline 212, duration 9 days - ECHA
Chronic NOEC for Crustacea	0,128 mg/l Species: Daphnia magna. OECD Guideline 211 - ECHA
Cetrimonium chloride	

Cethinonium chionae	
LC50 - for Fish	> 0,59 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,09 mg/l/48h Species: Daphnia magna, Read-across, similar to OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	0,13 mg/l/72h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,104 mg/l/96h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,0322 mg/l Species: Pimephales promelas. U.S. EPA FIFRA 72-4(a) - ECHA
Chronic NOEC for Crustacea	0,0068 mg/l Species: Daphnia magna. Read-across, similar to OECD Guideline 211 - ECHA

 $[3R-(3\alpha,3a\beta,6\beta,7\beta,8a\alpha)] - octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene$ 

LC50 - for Fish	0,43 mg/l/96h Species: Cyprinus carpio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,48 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
Chronic NOEC for Algae / Aquatic Plants	0,51 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA

#### 12.2. Persistence and degradability

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides

Solubility in water	10 mg/l ISO 4311, temp. 25° C pH 5,4 - ECHA
Rapidly degradable OECD Guideline 301 B - ECHA	
Cetrimonium chloride	
Solubility in water	240 mg/l Temp. 25° C pH 7 - ECHA
Rapidly degradable OECD Guideline 301 B - ECHA	



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[3R-(3a,3a,6b,7b,8aa)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene Solubility in water 4,3 mg/l Similar to OECD Guideline 105, temp. 24° C - ECHA Rapidly degradable OECD Guideline 301 D - ECHA 12.3. Bioaccumulative potential Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides Partition coefficient: n-octanol/water 3,29 Calculation method, temp. 20° C pH 5,4 - ECHA Cetrimonium chloride Partition coefficient: n-octanol/water 3,08 Temp. 25° C - ECHA BCF 79 Read-across, EPA OPP 165-4 - ECHA [3R-(3a,3a,6b,7b,8aa)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene Partition coefficient: n-octanol/water 5,1 Similar to OECD Guideline 117, temp. 25° C - ECHA BCF 1510 L/kg ww QSAR model - ECHA 12.4. Mobility in soil Information not available 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

**SECTION 13. Disposal considerations** 

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

Not applicable



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### 14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None



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Substances subject to the Stockholm Convention:

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H311	Toxic in contact with skin.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

- CAS NUMBER: Chemical Abstract Service Number

- CE50: Effective concentration (required to induce a 50% effect)

- CE NUMBER: Identifier in ESIS (European archive of existing substances)

- CLP: EC Regulation 1272/2008



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- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).
GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP) 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP) 16. Regulation (EU) 2010/521 (XII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP) - The Merck Index 10th Edition
- Handling Chemical Safety - INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- N.I. Sax - Dangerous properties of industrial materials-7, 1969 Edition
- ICHA website
- Den website - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy
Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and
thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety
laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

Provide appointed staff with adequate training on how to use chemical products. Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.



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Safety Data Sheet According to Annex II to REACH - Regulation 2015/830				
SECTION 1. Identification of the subs	stance/mixture and of the company/undertaking			
<b>1.1. Product identifier</b> Code: Product name	0010847 WHF VOLUME CONDITIONER MOUSSE			
1.2. Relevant identified uses of the substance or m           Intended use         Mixture for cosmetic				
<b>1.3. Details of the supplier of the safety data sheet</b> Name Full address District and Country	G.V.F. – GIVIEFFE S.P.A. Via Giovanni Falcone, 8 20080 Vernate (MI) Italy phone 0039 0290093743			
	fax 0039 0290093740			
e-mail address of the competent person				
responsible for the Safety Data Sheet	sarah.pizzolato@itelyhairfashion.it			
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	Available 24 hours/day, 7/7 days: CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Roma): +39 0668593726 Az. Osp. Univ. Foggia (Foggia): +39 800183459 Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870 CAV Policlinico "Umberto I" (Roma): +39 0649978000 CAV Policlinico "A. Gemelli" (Roma): +39 063054343 Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0557947819 CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444 Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300 European emergency number: 112 (Available 24 hours/day, 7/7 days)			

### **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use. The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, see section 3.

Hazard classification and indication:

2.2. Label elements



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Hazard pictograms:		
0'maluundu		
Signal words:		
Hazard statements:		
Precautionary statements:		
P264	Wash hands thoroughly after handling.	
P280	Avoid release to the environment. Wear protective gloves, eye protection and face protection.	
	IF ON SKIN: wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if preser	at and easy to do. Continue
	rinsing.	it and easy to do. Continue
P337+P313	If eye irritation persists: Get medical advice / attention.	
2.3. Other hazards		

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Cetrimonium chloride		
CAS 112-02-7	1 ≤ x < 1,5	Acute Tox. 3 H311, Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Aguatic Acute 1 H400 M=10, Aguatic Chronic 1 H410 M=1
EC 203-928-6		
INDEX -		
Reg. no. 01-2119970558-23		
1-Propanaminium, 3-amino-N- (carboxymethyl)-N,N-dimethyl-, N- (C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts CAS 147170-44-3	1≤x< 1,5	Eye Dam. 1 H318, Aquatic Chronic 3 H412
EC 931-333-8		
INDEX -		
Reg. no. 01-2119489410-39-0001		
The full wording of hazard (H) phrases	is given in section 16	S of the sheet.



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### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### **SECTION 6.** Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.



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#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Cetrimonium chloride								
Predicted no-effect concentr	ation - PNEC							
Normal value in fresh water				0,001	mg	g/l		
Normal value in marine wate	er			0	mg	g/l		
Normal value for fresh water	sediment			9,27	mg	j/kg		
Normal value for marine wat	er sediment			0,927	mg	j/kg		
Normal value for water, inter	mittent release			0,001	mg	g/I		
Normal value of STP microo	rganisms			0,4	mg	g/l		
Normal value for the terrestri	ial compartment			7	mg	j/kg		
Health - Derived no-effe	ect level - DNEL / D	MEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,83 mg/kg bw/d		· · ·		



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Inhalation				0,98 mg/m3				3,32 mg/m3
				-				
Skin				2,83 mg/kg bw/d				4,7 mg/kg bw/d
1-Propanaminium, 3-ar inner salts	nino-N-(carboxyme	ethyl)-N,N-dimet	h <b>yl-, N-(C8-18(</b> 6	even numbere	d) and C18 u	nsaturated a	cyl) derivs., hyd	lroxides,
Predicted no-effect concentre	ation - PNEC				·			
Normal value in fresh water				0,013	mį	g/l		
Normal value in marine wate	er			0,0013	mç	g/l		
Normal value for fresh water	sediment			14,8	mç	g/kg		
Normal value for marine wat	er sediment			1,48	mç	g/kg		
Normal value of STP microo	rganisms			3000	mç	g/l		
Normal value for the terrestr	ial compartment			0,8	mç	g/kg		
Health - Derived no-eff	ect level - DNEL / D	MEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				7,5 mg/kg bw/d				
Inhalation				13,04 mg/m3				44 mg/m3
Skin				7,5 mg/kg bw/d				12,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.



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#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### **SECTION 9.** Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid	Method: visual Remark: atmospheric pressure: 101,325 kPa
		Temperature: 20° C
Colour	Colourless	Method: visual
Odour	Floral - fresh - fruity - musk	Method: olfactory
Odour threshold	Not available	
рН	4,30 - 4,80	Method: pHmeter Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: there are not components with explosive properties
Upper explosive limit	Not applicable	Remark: there are not components with explosive properties
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	Not available	
Density	1 +/- 0,02 g/mL	Method: Picnometer
Solubility	Not available	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	Not available	
Explosive properties	Not explosive	Remark: there aren't components with explosive properties
Oxidising properties	Not oxidising	Remark: there aren't components with oxidising properties

#### 9.2. Other information

VOC: 0,0301 g/mL – 3,015%



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### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

### **SECTION 11. Toxicological information**

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

#### ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: >2000 mg/kg



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LD50 (Dermal) of the mixture: >2000 mg/kg

Cetrimonium chloride

LD50 (Oral) 699 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) 528 mg/kg OECD Guideline 402 - ECHA

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

LD50 (Oral) > 2000 mg/kg Species: rat. Similar to OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg Species: rat. OECD Guideline 402 - ECHA

#### SKIN CORROSION / IRRITATION

Causes skin irritation

**SERIOUS EYE DAMAGE / IRRITATION** 

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class



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### **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity	
Cetrimonium chloride	
LC50 - for Fish	> 0,59 mg/l/96h Species: Danio rerio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,09 mg/l/48h Species: Daphnia magna, Read-across, similar to OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	0,13 mg/l/72h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,104 mg/l/96h Species: Pseudokirchneriella subcapitata. Read-across, OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,0322 mg/l Species: Pimephales promelas. U.S. EPA FIFRA 72-4(a) - ECHA
Chronic NOEC for Crustacea	0,0068 mg/l Species: Daphnia magna. Read-across, similar to OECD Guideline 211 - ECHA
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,	N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts
EC50 - for Crustacea	7 mg/l/48h Species: Acartia tonsa. Read-across, ISO 14669 (1999) - ECHA
EC50 - for Algae / Aquatic Plants	> 10 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
Chronic NOEC for Fish	0,16 mg/l Species: Oncorhynchus mykiss. OECD Guideline 204 - ECHA
Chronic NOEC for Crustacea	0,32 mg/l Species: Daphnia magna. OECD Guideline 211 - ECHA
Chronic NOEC for Algae / Aquatic Plants	3,2 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
12.2. Persistence and degradability	
Cetrimonium chloride	
Solubility in water	240 mg/l Temp. 25° C pH 7 - ECHA
Rapidly degradable OECD Guideline 301 B - ECHA	
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,	N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts
Solubility in water	< 250 mg/l Temp. 20° C - ECHA
Rapidly degradable Similar to OECD Guideline 311 - ECHA	
12.3. Bioaccumulative potential	
Cetrimonium chloride	
Partition coefficient: n-octanol/water	3,08 Temp. 25° C - ECHA
BCF	79 Read-across, EPA OPP 165-4 - ECHA
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,	N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts
Partition coefficient: n-octanol/water	4,44 (Q)SAR - ECHA
BCF	> 7 BCFWIN v2.15 - ECHA
12.4. Mobility in soil	
Information not available	



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#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects

Information not available

### **SECTION 13.** Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant



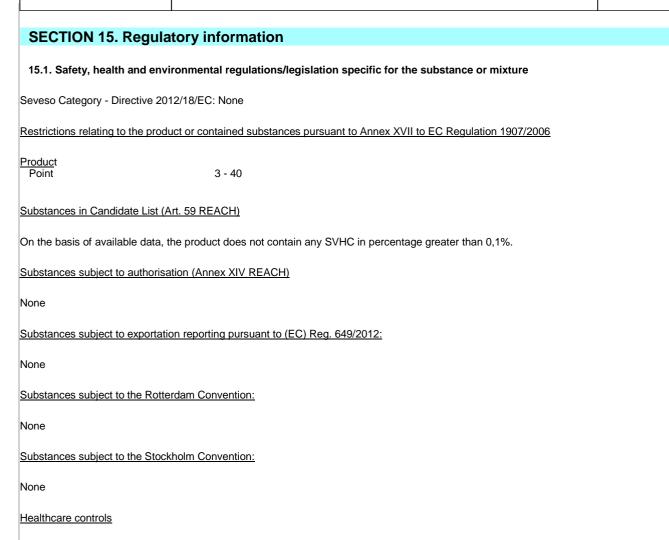
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Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2



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Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1			
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1			
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3			
H311	Toxic in contact with skin.			
H302	Harmful if swallowed.			
H314	Causes severe skin burns and eye damage.			
H318	Causes serious eye damage.			
H319	Causes serious eye irritation.			
H315	Causes skin irritation.			
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting effects.			
11440	Leverful to equate life with lever lection officets			

H412 Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
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- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- Regulation (EU) 203/2017 (III Atp. CLP) of the European Parliament
   Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
   Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament

- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)



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### 0010847 - WHF VOLUME CONDITIONER MOUSSE

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14. Regulation (EU) 2018/669 (XI Atp. CLP)

15. Regulation (EU) 2018/1480 (XIII Atp. CLP)

16. Regulation (EU) 2019/521 (XII Atp. CLP)

- The Merck Index. - 10th Edition - Handling Chemical Safety

- INRS - Fiche Toxicologique (toxicological sheet)

- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition

- IFA GESTIS website

- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.



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Safety Data Sheet According to Annex II to REACH - Regulation 2015/830					
<b>SECTION 1. Identific</b>	ation of the subst	ance/mixture and of the company/undertaki	ng		
<b>1.1. Product identifier</b> Code: Product name		0010848 WHF DEFENDO SPRAY PROTETTIVO CALORE			
1.2. Relevant identified uses Intended use	of the substance or mix Mixture for cosmetic u	xture and uses advised against se			
<b>1.3. Details of the supplier o</b> Name Full address District and Country		G.V.F. – GIVIEFFE S.P.A. Via Giovanni Falcone, 8 20080 Vernate (MI) Italy			
		phone 0039 0290093743			
		fax 0039 0290093740			
e-mail address of the compete	nt person				
responsible for the Safety Data	a Sheet	sarah.pizzolato@itelyhairfashion.it			
<b>1.4. Emergency telephone n</b> For urgent inquiries refer to		Available 24 hours/day, 7/7 days: CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Acc 0668593726 Az. Osp. Univ. Foggia (Foggia): +39 800183459 Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870 CAV Policlinico "Umberto I" (Roma): +39 0649978000 CAV Policlinico "A. Gemelli" (Roma): +39 063054343 Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0 CAV Centro Nazionale di Informazione Tossicologica (Pavia) Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800 European emergency number: 112 (Available 24 hours/day, 7	9557947819 : +39 038224444 883300		

### **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, See section 3.

Hazard classification and indication:

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



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Hazard pictograms:							
Signal words:							
Hazard statements:							
Precautionary statements:							
<b>P273</b> A	void release to the environr	nent.					
	Wear eye protection and face protection. If eye irritation persists: Get medical advice or attention.						
2.3. Other hazards							
On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.							
SECTION 3. Composition/information on ingredients							
3.2. Mixtures							
Contains:							
Identification	x = Conc. %	Classification 1272/2008 (CLP)					
N-[3- (dimethylamino)propyl]stea		Fue Dem 411249, Acustic Acute 411400 M 4, Acustic Chargin 411440 M 4					
CAS 7651-02-7 EC 231-609-1	1 ≤ x < 1,5	Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1					
INDEX -							
Reg. no. 01-2119979089-19	)						
The full wording of hazard (H) phrases is given in section 16 of the sheet.							

### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.



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## 0010848 - WHF DEFENDO SPRAY PROTETTIVO CALORE

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### **SECTION 6.** Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.



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			UALC					
6.4. Reference to other se	ctions							
ny information on personal protection and disposal is given in sections 8 and 13.								
SECTION 7. Hand	ling and sto	orage						
1. Precautions for safe h	andling							
Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.								
.2. Conditions for safe st	orage, including	any incompatibil	ities					
Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. K ep containers away from an incompatible materials, see section 10 for details.								
3. Specific end use(s)								
nformation not available								
SECTION 8. Expo	sure contro	ls/personal p	rotection					
8.1. Control parameters								
N-[3-(dimethylamino)pro	pyl]stearamide							
Predicted no-effect concentration	ion - PNEC							
Normal value in fresh water				7,1	μg	/L		
Normal value in marine water				0,7	hð	/L		
Normal value for fresh water s	ediment			1,25	mç	g/kg		
Normal value for marine water	sediment			0,13	mg	g/kg		
Normal value for water, interm	ittent release			0,14	μg	/L		
Normal value of STP microorg	anisms			10	mg	g/l		
Normal value for the terrestria				1		g/kg		
Health - Derived no-effect		DMEL			Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				•				1,7 mg/m3
Skin								2,77 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.



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Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

### **SECTION 9.** Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Pale liquid	Method:visual Remark:atmospheric pressure: 101,325 kPa Temperature:20° C
Colour	White	Method: visual
Odour	Floral - fresh - fruity - musk	Method: olfactory
Odour threshold	Not available	
рН	5,5 - 6,0	Method: pHmeter Mettler
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 60 °C	Calculation method
Evaporation rate	Not available	
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	



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Lower explosive limit Not applicable Not applicable Upper explosive limit Vapour pressure Not available Vapour density Not available Relative density Not available Density 1 +/- 0,02 g/mL Solubility Not available Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not available Decomposition temperature Not available Viscosity Not available Not applicable Explosive properties Oxidising properties Not applicable

Remark: there are not components with explosive properties Remark: there are not components with explosive properties

Method: Picnometer

Remark: there aren't components with explosive properties Remark: there aren't components with oxidising properties

#### 9.2. Other information

VOC: 0,0011 g/mL - 0,11%

### **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.



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It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: Not classified (no significant component)

N-[3-(dimethylamino)propyl]stearamide

LD50 (Oral) > 2000 mg/kg Species: rat. OECD Guideline 423 - ECHA

LD50 (Dermal) > 2000 mg/kg Species: rabbit - ECHA

### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class



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### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

# **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

### 12.1. Toxicity

N-[3-(dimethylamino)propyl]stearamide	
LC50 - for Fish	> 0,1 mg/l/96h Species: Oncorhynchus mykiss. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,381 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	0,14 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,071 mg/l/72h Species: Desmodesmus subspicatus. OECD Guideline 201 - ECHA
Chronic NOEC for Crustacea	0,2 mg/l Species: Daphnia magna. OECD Guideline 211 - ECHA

### 12.2. Persistence and degradability

N-[3-(dimethylamino)propyl]stearamide Solubility in water Rapidly degradable OECD Guideline 301 B - ECHA

### 12.3. Bioaccumulative potential

N-[3-(dimethylamino)propyl]stearamide	
Partition coefficient: n-octanol/water	

### 12.4. Mobility in soil

Information not available

10 mg/l OECD Guideline 105, temp. 20° C pH 6,8 - ECHA

2 EU Method A.8, pH 7 - ECHA



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### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects

Information not available

### **SECTION 13.** Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant



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**SECTION 15. Regulatory information** 

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H318	Causes serious eye damage.



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H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- · GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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- Regulation (EU) 2015/830 of the European Parliament
   Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 7
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
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- Handling Chemical Safety
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- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy Note for users:



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The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.



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	Safety Data Sheet According to Annex II to REACH - Regulation 2015/830	
SECTION 1. Identific	ation of the substance/mixture and of the company/undertaking	
<b>1.1. Product identifie</b> Code: Product name	10849 WHF CRYSTAL OIL	
1.2. Relevant identified uses Intended use	of the substance or mixture and uses advised against Mixture for cosmetic use	
<b>1.3. Details of the supplier o</b> Name Full address District and Country	the safety data sheet G.V.F. – GIVIEFFE S.P.A. Via Giovanni Falcone, 8 20080 Vernate (MI) Italy phone 0039 0290093743 fax 0039 0290093740	
e-mail address of the compete		
responsible for the Safety Data		
<b>1.4. Emergency telephone n</b> For urgent inquiries refer to	Imber Available 24 hours/day, 7/7 days: CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA (Ron 0668593726 Az. Osp. Univ. Foggia (Foggia): +39 800183459 Az. Osp. "A. Cardarelli" (Napoli): +39 0817472870 CAV Policlinico "Umberto I" (Roma): +39 0649978000 CAV Policlinico "A. Gemelli" (Roma): +39 063054343 Az. Osp. "Careggi" U.O. Tossicologia Medica (Firenze): +39 0557947819 CAV Centro Nazionale di Informazione Tossicologica (Pavia): +39 038224444 Azienda Ospedaliera Papa Giovanni XXII (Bergamo): +39 800883300 European emergency number: 112 (Available 24 hours/day, 7/7 days)	na): +39

### **SECTION 2. Hazards identification**

### 2.1. Classification of the substance or mixture

This is a cosmetic product that is safe for consumers and users under intended and reasonably foreseeable use.

The complete ingredients list is reported on the product packaging, for toxicological information about relevant substances, See section 3.

Hazard classification and indication: -

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

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Hazard pictograms:		
Signal words:	-	
Hazard statements:		
EUH208	Contains: $[3R-(3\alpha,3a\beta,6\beta,7\beta,8a\alpha)]$ -octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methan May produce an allergic reaction.	oazulene
Precautionary statements:		

Product not intended for uses provided for by Dir. 2004/42/CE.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## **SECTION 3. Composition/information on ingredients**

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
[3R-(3α,3aβ,6β,7β,8aα)]- octahydro-6-methoxy-3,6,8,8- tetramethyl-1H-3a,7- methanoazulene		
CAS 19870-74-7	0,15 ≤ x < 0,2	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 243-384-7		
INDEX -		
Reg. no. 01-2120228335-61		

The full wording of hazard (H) phrases is given in section 16 of the sheet.



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### **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

Not specifically necessary. Observance of good industrial hygiene is recommended.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

### **SECTION 5.** Firefighting measures

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters

### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### **SECTION 6.** Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.



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### 6.3. Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.

#### 7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Predicted no-effect concentre	ration - PNEC							
Normal value in fresh water				0,43	μg	/L		
Normal value in marine wate	er			0,043	hð	/L		
Normal value for fresh water	r sediment			1,29	mg	ı/kg		
Normal value for marine wat	ter sediment			0,129	mg	ı/kg		
Normal value of STP microo	organisms			100	mg	j/l		
Normal value for the terrestr	ial compartment			0,257	mg	ı/kg		
Health - Derived no-eff	ect level - DNEL / D	DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,7 mg/kg bw/d				
Inhalation				4,7 mg/m3			·	16,1 mg/m



2,7 mg/kg bw/d Revision nr. 1

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Skin

1220 µg/cm<sup>2</sup>

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2030 µg/cm<sup>2</sup> 4,5 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

### **SECTION 9.** Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

In absence of values of the mixture, where it is possible, the values of the substances present in major concentration are reported.

AppearanceOily liquidColourcolourlessOdourFloral - fresh - fruity - muskOdour thresholdNot availablepHNot available

Method: visual Remark: atmospheric pressure: 101,325 kPa Temperature: 20° C Method: visual Method: olfactory



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Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	78 °C	Method: closed cup
Evaporation rate	Not available	Method. closed cup
Flammability (solid, gas)	Not applicable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not applicable	Remark: the mixture doesn't contair
		substances with explosive properties
Upper explosive limit	Not applicable	Remark: the mixture doesn't contair substances with explosive properties
Vapour pressure	Dimethicone: <1000 hPa Decamethylcyclopentasiloxane: 0,16 hPa	Temperature: 50° C Temperature: 20° C
Vapour density	Dimethicone: 0,93 g/cm <sup>3</sup> Decamethylcyclopentasiloxane: 0,95	Temperature: 25° C
Relative density	0,945 +/- 0,02 g/mL	
Solubility	Decamethylcyclopentasiloxane: insoluble in water, soluble in toluene.	
Partition coefficient: n-octanol/water	Decamethylcyclopentasiloxane: 8,02	
Auto-ignition temperature	Decamethylcyclopentasiloxane: 392° C	
Decomposition temperature	Not available	
Viscosity	Decamethylcyclopentasiloxane: 4 mPa.s (20° C) dynamic viscosity Dimethicone: 1500 mPa s dynamic viscosity	Temperature: 25° C
Explosive properties	Not applicable	Remark: the mixture doesn't contair substances with explosive properties
Oxidising properties	Not applicable	Remark: the mixture doesn't contair substances with oxidizing properties

### 9.2. Other information

VOC: 0,00047 g/mL - 0,047%

# **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.



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### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

Information not available

### **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral) of the mixture: Not classified (no significant component) LD50 (Dermal) of the mixture: Not classified (no significant component)

 $[3R-(3\alpha,3a\beta,6\beta,7\beta,8a\alpha)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene$ 

LD50 (Oral) > 2000 mg/kg OECD Guideline 401 - ECHA

LD50 (Dermal) > 2000 mg/kg OECD Guideline 402 - ECHA



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### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

### **RESPIRATORY OR SKIN SENSITISATION**

May produce an allergic reaction. Contains: [3R-(3α,3aβ,6β,7β,8aα)]-octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

**STOT - SINGLE EXPOSURE** 

Does not meet the classification criteria for this hazard class

### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## **SECTION 12. Ecological information**

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

### 12.1. Toxicity

[3R-(3a,3ab,6b,7b,8aa)]-octahydro-6-methoxy-3,6,8,8-	tetramethyl-1H-3a,7-methanoazulene
LC50 - for Fish	0,43 mg/l/96h Species: Cyprinus carpio. OECD Guideline 203 - ECHA
EC50 - for Crustacea	0,48 mg/l/48h Species: Daphnia magna. OECD Guideline 202 - ECHA
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA
Chronic NOEC for Algae / Aquatic Plants	0,51 mg/l Species: Pseudokirchneriella subcapitata. OECD Guideline 201 - ECHA



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### 12.2. Persistence and degradability

 $[3R-(3\alpha,3a\beta,6\beta,7\beta,8a\alpha)] - octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene$ 

Solubility in water

4,3 mg/l Similar to OECD Guideline 105, temp. 24° C - ECHA

Rapidly degradable OECD Guideline 301 D - ECHA

### 12.3. Bioaccumulative potential

 $[3R-(3\alpha,3a\beta,6\beta,7\beta,8a\alpha)] - octahydro-6 - methoxy-3,6,8,8 - tetramethyl-1H-3a,7 - methanoazulene$ 

Partition coefficient: n-octanol/water5,1 Similar to OECD Guideline 117, temp. 25° C - ECHABCF1510 L/kg ww QSAR model - ECHA

### 12.4. Mobility in soil

Information not available

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

### 12.6. Other adverse effects

Information not available

## **SECTION 13. Disposal considerations**

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information**

### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable



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### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

### 14.6. Special precautions for user

Not applicable

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

### **SECTION 15. Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

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Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

## **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008 - DNEL: Derived No Effect Level
- DINEL: Derived NO Effect Lev
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%



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- IMDG: International Maritime Code for dangerous goods

- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).
- GENERAL BIBLIOGRAPHY
- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.