

## SECTION1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product code: PURITY DESIGN MASTERPIECE SCULPTING HAIRSPRAY

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Hair spray

Sectors of use:

Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Product category:

Cosmetics, personal care products

Uses advised against

Do not use for purposes other than those listed

### 1.3. Details of the supplier of the safety data sheet

G.V.F - GIVIEFFE SPA - Via G. Falcone, 8 Tel.+39.02.90093743 Fax +39.02.90093740

mail:info@itelyhairfashion.it / www.itelyhairfashion.it

mail technical competent: lisanna.loiacono@itelyhairfashion.it

National contact:Emergency telephon number EU

### 1.4. Emergency telephone number

Tel.112 / GVF SPA. Tel. +39 02 90093743 / Monday / Friday: 8.30 - 12.30 / 13.30 -17.30

## SECTION2. Hazards identification

### 2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS02

Hazard Class and Category Code(s):

Flam. Aerosol 1

Hazard statement Code(s):

H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

Aerosol that ignites easily even at low temperatures, fire risk

The repeated inhalation of vapors can cause drowsiness and giddiness.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.

The aerosol containers overheated burst and can be ejected with violence from a distance and can take place a dangerous mechanism for the fire.

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS02 - Danger



**Hazard statement Code(s):**

H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

**Supplemental Hazard statement Code(s):**

not applicable

**Precautionary statements:**

**Prevention**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

**Storage**

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**2.3. Other hazards**

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

**SECTION3. Composition/information on ingredients**

**3.1 Substances**

Irrilevant

**3.2 Mixtures**

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
ethanol	> 30 <= 50%	Flam. Liq. 2, H225		64-17-5	200-578-6	
butane	> 19 <= 24%	Flam. Gas 1, H220; Press. Gas, H280	601-004-00-0	106-97-8	203-448-7	
isobutane	> 9,5 <= 15%	Flam. Gas 1, H220; Press. Gas, H280	601-004-00-0	75-28-5	200-857-2	
propane	> 9,5 <= 15%	Flam. Gas 1, H220; Press. Gas, H280	601-003-00-5	74-98-6	200-827-9	

**SECTION4. First aid measures**

**4.1. Description of first aid measures**

**Inhalation:**

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

**Direct contact with skin (of the pure product):**

Wash thoroughly with soap and running water.

**Direct contact with eyes (of the pure product):**

Wash immediately and thoroughly with running water for at least 10 minutes.

**Ingestion:**

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

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

For symptoms and effects due to substances refer to paragraph 11.

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

No data available.

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

#### **5.1. Extinguishing media**

Advised extinguishing agents:

CO<sub>2</sub> or dry powder extinguisher

Extinguishing means to avoid:

Direct jets of water

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

The aerosol containers overheat, burst and can be ejected with violence from a distance and can take place a dangerous mechanism for the fire.

Manufactured under pressure in sealed metal container (test pressure 15 bar max). Cool containers with water spray trying to remove them from the fire. The aerosol containers can be overheated and burst violently ejected from a distance (protect the head using a safety helmet).

#### **5.3. Advice for firefighters**

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use self-respirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211, Fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

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

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

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Leave the surrounding area recalling that any overheating could project the cylinder at a considerable distance.

Wear gloves and protective clothing

6.1.2 For emergency responders:

Given the tightness of aerosol, it is unlikely that the spillage may occur.

However if some container is damaged likely to cause a loss, insulate the tank in question by bringing it to open air or covering it with inert material and fuel (eg sand, earth, vermiculite) and having the care to avoid any point of ignition that might pose a serious risk of fire.

Wear gloves and protective clothing.

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

#### **6.2. Environmental precautions**

Contain spill

Inform the competent authorities.

Discharge the remains in compliance with the regulations

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

#### 6.3.1 For containment:

Recover the product for reuse, if possible, or the removal.

#### 6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

#### 6.3.3 Other information:

None in particular.

### **6.4. Reference to other sections**

Refer to paragraphs 8 and 13 for more information

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

### **7.1. Precautions for safe handling**

Avoid contact and inhalation of vapors

Use extreme caution when handling the product. Avoid shock or friction.

Do not smoke at work

At work do not eat or drink.

Vapors are heavier than air and may spread close to the ground and form explosive mixtures with air. Prevent formation of flammable or explosive concentrations in the air.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.

Do not pierce or burn, even after the use. Do not spray on flame or incandescent objects. Use in adequately ventilated areas.

See also paragraph 8 below.

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

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Pressurized container. Store in a ventilated place, in original packaging away from heat and sunlight.

Keep away from open flames, sparks and heat sources. Avoid direct sunlight exposure.

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

Public domain (administration, education, entertainment, services, craftsmen):

- Keep away from heat sources, sparks, open flames
- Do not use on hot surfaces or surfaces exposed to direct sunlight
- Do not breathe spray/vapours
- Avoid contact with eyes, skin, clothing
- Do not eat, drink or smoke when using
- Do not use in confined and/or limited spaces
- Accumulations of flammable gas in the air may occur in case of an excessive use
- Use at a distance of 20 cm from the surface to be treated to prevent dispersion in the air
- Spray only briefly and take care for a good ventilation after use

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

### **8.1. Control parameters**

Related to contained substances:

ethanol:

TLV-TWA: 1000 ppm - 1880 mg/m<sup>3</sup> (A4)

Not classifiable as a human carcinogen (ACGIH 2004)

MAK: 500 ppm - 960 mg/m<sup>3</sup>

Peak limitation category: II(2)

Carcinogen category: 5

Pregnancy risk group: C  
Germ cell mutagen group: 5 (DFG 2004)

butane:  
TLV-TWA: 1000 ppm (ACGIH 2005)  
MAK: 1000 ppm 2400 mg/m<sup>3</sup>  
Peak limitation category: II(4)  
Pregnancy risk group: D (DFG 2006)

isobutane:  
TLV-TWA: 1000 ppm (ACGIH 2005)  
MAK: 1000 ppm 2400 mg/m<sup>3</sup>  
Peak limitation category: II(4)  
Pregnancy risk group: D (DFG 2008)

propane:  
TLV-TWA: 1000 ppm (ACGIH 2005)  
MAK: 1000 ppm 2400 mg/m<sup>3</sup>  
Peak limitation category: II(4)  
Pregnancy risk group: D (DFG 2006)

### **8.2. Exposure controls**

Appropriate engineering controls:

Public domain (administration, education, entertainment, services, craftsmen):

Work in a well ventilated place or equipped with ventilation devices. Do not use on hot surfaces or surfaces exposed to sunlight in order to avoid rapid evaporation of the product. Use personal protective equipment (see below).

Individual protection measures:

(a) Eye / face protection  
Wear safety goggles to EN-166

(b) Skin protection

(i) Hand protection  
Not needed for normal use.

(ii) Other  
Avoid direct contact with the skin  
Better is to use cotton antistatic clothing

(c) Respiratory protection  
Work in a sufficiently ventilated to avoid inhaling the product.

(d) Thermal hazards  
No hazard to report

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.

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

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

Physical and chemical properties	Value	Determination method
Appearance	colorless or pale yellow liquid under pressure	VISUAL
Odour	fragrance	ORGANOLEPTIC
Odour threshold	not determined	
pH	irrelevant	PH-METER
Melting point/freezing point	< -80 °C (liquid gas)	
Initial boiling point and boiling range	> -42 °C (liquid gas)	
Flash point	< -100 °C (liquid gas)	
Evaporation rate	not determined	
Flammability (solid, gas)	irrelevant	
Upper/lower flammability or explosive limits	LEL 1,8% (vol); UEL 9,5% (vol)	
Vapour pressure	3,2 bar	
Vapour density	> 2 (liquid gas)	
Relative density	0,66 g/ml	
Solubility	in alcohol	
Water solubility	partial	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	> 400 °C (liquid gas)	
Decomposition temperature	not determined	
Viscosity	not determined	
Explosive properties	not determined	
Oxidising properties	not determined	
Container volume	520 ml	ISO 90-3:2000
Product volume	400 ml	ISO 90-3:2000
Pressure to 20 °C	3,2 bar	
Deformation pressure	16,5 bar	MANOMETER GAUGE
Burst pressure of the container	18 bar	MANOMETER GAUGE
Flash point of liquid phase	< 21 °C	
Propellant inflammability	< 0 °C	

## 9.2. Other information

No data available.

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

Related to contained substances:

ethanol:

Reacts slowly with calcium hypochlorite, silver oxide and ammonia, causing fire and explosion hazard. Reacts violently with strong oxidants such as nitric acid, silver nitrate, mercuric nitrate or magnesium perchlorate, causing fire and explosion hazard.

isobutane:

Reacts with strong oxidants, acetylene, halogens and nitrogen oxides causing fire and explosion hazard.

### 10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

### 10.3. Possibility of hazardous reactions

There are no hazardous reactions

### 10.4. Conditions to avoid

Avoid heating the product, it could explode.

Avoid contact with combustible materials. The product could catch fire.  
heat, open flames, sparks or hot surfaces.

The aerosol product is stable for a period exceeding 36 months and in normal storage conditions can not take place dangerous reactions as the container is almost hermetically sealed.

To avoid that the metal container can deteriorate, keep away from acidic or basic products. Attention to the heat as temperatures exceeding 50 °C has increased pressure inside the container that gets to deformation of the cylinder until the outbreak.

### 10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, strong reducing agents.

It can generate toxic gases to contact with oxidants mineral acids, organic peroxides, organic water peroxides.

It can ignite in contact with oxidants mineral acids, organic nitrides, peroxides and water peroxides, strong oxidants agents.

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

ATE(mix) oral = ∞

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met.

(b) skin corrosion/irritation based on available data, the classification criteria are not met.

(c) serious eye damage/irritation: based on available data, the classification criteria are not met.

(d) respiratory or skin sensitization: based on available data, the classification criteria are not met.

(e) germ cell mutagenicity: based on available data, the classification criteria are not met.

(f) carcinogenicity: based on available data, the classification criteria are not met.

(g) reproductive toxicity: based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.

(j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:

ethanol:

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its vapour and by ingestion.

INHALATION RISK: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.

EFFECTS OF SHORT-TERM EXPOSURE: The substance irritates the eyes. Inhalation of high concentration of vapour may cause irritation of the eyes and respiratory tract. The substance may cause effects on the central nervous system.

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration. See Notes.

**ACUTE HAZARDS/SYMPTOMS**

**INHALATION** Cough. Headache. Fatigue. Drowsiness.

**SKIN** Dry skin.

**EYES** Redness. Pain. Burning.

**INGESTION** Burning sensation. Headache. Confusion. Dizziness. Unconsciousness.

**N O T E S** Ethanol consumption during pregnancy may adversely affect the unborn child. Chronic ingestion of ethanol may cause liver cirrhosis.

LD50 (rat) Oral (mg/kg body weight) = 14000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 20000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 20000

butane:

**ROUTES OF EXPOSURE:** The substance can be absorbed into the body by inhalation.

**INHALATION RISK:** On loss of containment this liquid evaporates very quickly displacing the air and causing a serious risk of suffocation when in confined areas.

**EFFECTS OF SHORT-TERM EXPOSURE:** Rapid evaporation of the liquid may cause frostbite. The substance may cause effects on the central nervous system.

**ACUTE HAZARDS/SYMPTOMS**

**INHALATION** Drowsiness. Unconsciousness.

**SKIN ON CONTACT WITH LIQUID:** FROSTBITE.

**EYES ON CONTACT WITH LIQUID:** FROSTBITE.

**N O T E S** High concentrations in the air cause a deficiency of oxygen with the risk of unconsciousness or death.

isobutane:

**ROUTES OF EXPOSURE:** The substance can be absorbed into the body by inhalation.

**INHALATION RISK:** A harmful concentration of this gas in the air will be reached very quickly on loss of containment.

**EFFECTS OF SHORT-TERM EXPOSURE:** Rapid evaporation of the liquid may cause frostbite. The substance may cause effects on the cardiovascular system, resulting in impaired functions and respiratory failure. Exposure at high level may result in death.

**ACUTE HAZARDS/SYMPTOMS**

**INHALATION** Shortness of breath. Suffocation.

**SKIN ON CONTACT WITH LIQUID:** FROSTBITE.

**EYES ON CONTACT WITH LIQUID:** FROSTBITE.

propane:

**ROUTES OF EXPOSURE:** The substance can be absorbed into the body by inhalation.

**INHALATION RISK:** On loss of containment this liquid evaporates very quickly displacing the air and causing a serious risk of suffocation when in confined areas.

**EFFECTS OF SHORT-TERM EXPOSURE:** Rapid evaporation of the liquid may cause frostbite. The substance may cause effects on the central nervous system.

**ACUTE HAZARDS/SYMPTOMS**

**INHALATION** Drowsiness. Unconsciousness.

**SKIN ON CONTACT WITH LIQUID:** FROSTBITE.

**EYES ON CONTACT WITH LIQUID:** FROSTBITE.

**N O T E S** High concentrations in the air cause a deficiency of oxygen with the risk of unconsciousness or death.

## **SECTION12. Ecological information**

### **12.1. Toxicity**

Related to contained substances:

ethanol:

Toxicity to fish

- LC50 *Leuciscus idus*, 48h: 8.140 mg/l

Toxicity to daphnia and other aquatic invertebrates

- EC50 *Daphnia magna*, 24h: 9,3 - 14,2 g/l

Toxicity to algae

- EC50 *Chlorella pyrenoidosa*, 24h > 100 mg/l (literature value)

Use according to good working practices to avoid pollution into the environment.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

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

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

**12.6. Other adverse effects**

No adverse effects

**SECTION 13. Disposal considerations**

**13.1. Waste treatment methods**

The waste must be disposed of in compliance with the regulations in force delivering empty containers for final disposal and equipped to safely handle pressurized containers containing flammable liquids and gas waste. The empty container heated to temperatures exceeding 70 °C can burst.

Recover if possible. Operate according to local or national regulations

**SECTION 14. Transport information**

**14.1. UN number**

ADR/RID/IMDG/ICAO-IATA: 1950

ADR exemption because compliance with the following characteristics:

Combination packagings: per inner packaging 1 L per package 30 Kg

Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 1 L per package 20 Kg



**14.2. UN proper shipping name**

ADR/RID/IMDG: AEROSOL flammable

ICAO-IATA: AEROSOL flammable

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

ADR/RID/IMDG/ICAO-IATA: Class: 2

ADR/RID/IMDG/ICAO-IATA: Label: Onu

ADR: Tunnel restriction code: D

ADR/RID/IMDG/ICAO-IATA: Limited quantities: 1 L

IMDG - EmS: F-D, S-U

**14.4. Packing group**

ADR/RID/IMDG/ICAO-IATA: --

#### **14.5. Environmental hazards**

ADR/RID/ICAO-IATA: Product is not environmentally hazardous  
IMDG: Marine polluting agent: Not

#### **14.6. Special precautions for user**

The transport must be carried out by authorized vehicles for the transport of dangerous goods in accordance with the requirements of the applicable Edition of the agreement A.D.R. and national provisions.  
The transport must be carried out in the original packaging and in packages that are made from materials resistant to content and not likely to generate with this dangerous reactions. The process of loading and unloading of dangerous goods have received adequate training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

#### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

It is not intended to carry bulk

### **SECTION15. Regulatory information**

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

Directive 96/82/EC (Seveso), annex I, part 2: category 8

Control of Substances Hazardous to Health (COSHH), Regulations 2002

Regulation 2006/1907/EC (REACH), Regulation 2008/1272/EC (CLP).

#### **15.2. Chemical safety assessment**

No chemical safety assessment was carried out by the supplier

### **SECTION16. Other information**

#### **16.1. Other information**

Points modified compared to previous release: 1.1. Product identifier, 1.2. Relevant identified uses of the substance or mixture and uses advised against, 2.1. Classification of the substance or mixture, 2.2. Label elements, 2.3. Other hazards, 3.2 Mixtures, 6.1. Personal precautions, protective equipment and emergency procedures, 8.1. Control parameters, 10.1. Reactivity, 11.1. Information on toxicological effects, 12.1. Toxicity, 14.1. UN number, 14.2. UN proper shipping name, 14.3. Transport hazard class(es), 14.4. Packing group, 14.5. Environmental hazards, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Description of the hazard statements exposed to point 3

H225 = Highly flammable liquid and vapour.

H220 = Extremely flammable gas.

H280 = Contains gas under pressure; may explode if heated.

Classification based on data of all mixture components

Main normative references:

Regulation 1907/2006/EC

Regulation 1272/2008/EC

Regulation (EU) 2015/830

\*\*\* This tab annuls and replaces any previous edition.