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# **SAFETY DATA SHEET**

Revision nr. 1 dated 20/05/2021

## **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

### **1.1 Product identifier**

#### **Code**

ILI-CPP-BBMF15

#### **Product name**

MISTER FIX BROW LAMINATION ADHESIVE

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

#### **Intended use**

cosmetic product - eyebrow glue

| Identified Uses  | Industrial | Professional | Consumer |
|--|------------|--------------|----------|
| use the product as an eyebrow glue in the lamination - treatment | -          | ✓            | -        |

#### **Uses Advised Against**

Do not use anything other than the one indicated

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

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Full address: via Nicolò Rezzara, 15  
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## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

#### Hazard classification and indication:

|                                |      |                                     |
|--------------------------------|------|-------------------------------------|
| Flammable liquid, category 2   | H225 | Highly flammable liquid and vapour. |
| Serious eye damage, category 1 | H318 | Causes serious eye damage.          |

### 2.2. Label elements

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



Signal words:            Danger

#### Hazard statements:

**H225** Highly flammable liquid and vapour.

**H318** Causes serious eye damage.

#### Precautionary statements:

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

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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**P280** Wear protective gloves/ protective clothing / eye protection / face protection.

**P310** Immediately call a POISON CENTER / doctor / . . .

**P370+P378** In case of fire: use . . . to extinguish.

**P242** Use non-sparking tools.

**P403+P235** Store in a well-ventilated place. Keep cool.

**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

**P240** Ground and bond container and receiving equipment.

**P243** Take action to prevent static discharges.

**P241** Use explosion-proof [electrical / ventilating / lighting / . . . ] equipment.

**P233** Keep container tightly closed.

**Contains:** BUTYL ESTER OF PVM/MA COPOLYMER

## 2.3. Other hazards

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Information not relevant

### 3.2 Mixtures

Contains:

| Identification  | x = Conc. %      | Classification<br>1272/2008 (CLP)       |
|---|------------------|---|
| ALCOHOL DENAT.<br>CAS 64-17-5<br>EC 200-578-6<br>INDEX 603-002-00-5<br>Reg. no. 01-2119457610-43-0090 | $25 \leq x < 50$ | Flam. Liq. 2 H225,<br>Eye Irrit. 2 H319 |



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|   |                 |   |
|---|-----------------|---|
| <b>BUTYL ESTER OF PVM/MA COPOLYMER</b><br>CAS 25119-68-0<br>EC<br>INDEX -   | $5 \leq x < 10$ | Flam. Liq. 2 H225,<br>Eye Dam. 1 H318                                 |
| <b>ACETONE</b><br><br>CAS 67-64-1<br><br>EC 200-662-2<br><br>INDEX 606-001-00-8<br><br>Reg. no. 01-2119471330-49-XXXX | $5 \leq x < 10$ | Flam. Liq. 2 H225,<br>Eye Irrit. 2 H319,<br>STOT SE 3 H336,<br>EUH066 |

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

## 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. Get medical advice/attention 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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## **5. FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### **SUITABLE EXTINGUISHING EQUIPMENT**

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

#### **UNSUITABLE EXTINGUISHING EQUIPMENT**

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

#### **HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Excess pressure may form in containers exposed to fire at a risk of explosion. 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).



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## **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.

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.

### **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.

## **7. HANDLING AND STORAGE**

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

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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation 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. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.



| ALCOHOL DENAT.  |             |                |                    |                  |             |                |               |                  |
|---|-------------|----------------|--------------------|------------------|-------------|----------------|---------------|------------------|
| Predicted no-effect concentration - PNEC              |             |                |                    |                  |             |                |               |                  |
| Normal value in fresh water                           |             |                | 0,96               |                  |             | mg/l           |               |                  |
| Normal value in marine water                          |             |                | 0,79               |                  |             | mg/l           |               |                  |
| Normal value for fresh water sediment                 |             |                | 3,6                |                  |             | mg/kg          |               |                  |
| Normal value for marine water sediment                |             |                | 2,9                |                  |             | mg/kg          |               |                  |
| Normal value of STP microorganisms                    |             |                | 580                |                  |             | mg/l           |               |                  |
| Normal value for the food chain (secondary poisoning) |             |                | 0,72               |                  |             | g/kg           |               |                  |
| Normal value for the terrestrial compartment          |             |                | 0,63               |                  |             | mg/kg          |               |                  |
| Health - Derived no-effect 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 |
| Inhalation  |             |                |                    |                  | 1900 mg/m3  |                |               | 950 mg/m3        |
| Skin  |             |                |                    |                  |             |                |               | 343 mg/m3        |



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## ACETONE

| Threshold Limit Value                          |                      |                |               |                  |                    |                        |               |                  |
|--|----------------------|----------------|---------------|------------------|--------------------|------------------------|---------------|------------------|
| Type   | Country              | TWA/8h         |               | STEL/15min       |                    | Remarks / Observations |               |                  |
|  |                      | mg/m3          | ppm           | mg/m3            | ppm                |                        |               |                  |
| VLEP   | ITA                  | 1210           | 500           |                  |                    |                        |               |                  |
| WEL  | GBR                  | 1210           | 500           | 3620             | 1500               |                        |               |                  |
| OEL  | EU                   | 1210           | 500           |                  |                    |                        |               |                  |
| Predicted no-effect concentration - PNEC       |                      |                |               |                  |                    |                        |               |                  |
| Normal value in fresh water                    |                      |                |               | 10,6             | mg/l               |                        |               |                  |
| Normal value in marine water                   |                      |                |               | 1,06             | mg/l               |                        |               |                  |
| Normal value for fresh water sediment          |                      |                |               | 30,4             | mg/kg              |                        |               |                  |
| Normal value for marine water sediment         |                      |                |               | 3,04             | mg/kg              |                        |               |                  |
| Normal value for water, intermittent release   |                      |                |               | 21               | mg/l               |                        |               |                  |
| Normal value of STP microorganisms             |                      |                |               | 100              | mg/l               |                        |               |                  |
| Normal value for the terrestrial compartment   |                      |                |               | 33,3             | mg/kg              |                        |               |                  |
| Health - Derived no-effect 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   |                      |                |               |                  |                    |                        |               | 62 mg/kg bw/d    |
| Inhalation                                     |                      |                |               |                  | 2420 mg/m3         |                        |               | 1210 mg/m3       |
| Skin   |                      |                |               |                  |                    |                        |               | 186 mg/kg bw/d   |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

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.



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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, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (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.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

**Appearance** viscous liquid

**Colour** colourless

**Odour** characteristic

**Odour threshold** Not available

**pH** 6,08

**Melting point / freezing point** Not available



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**Initial boiling point** > 60 °C

**Boiling range** Not available

**Flash point** < 20 °C

**Evaporation rate** Not available

**Flammability (solid, gas)** Not available

**Lower inflammability limit** Not available

**Upper inflammability limit** Not available

**Lower explosive limit** Not available

**Upper explosive limit** Not available

**Vapour pressure** Not available

**Vapour density** Not available

**Relative density** 0,960 - 1,000 g/ml g/ml

**Solubility** soluble in water

**Partition coefficient: n-octanol/water** Not available

**Auto-ignition temperature** Not available

**Decomposition temperature** Not available

**Viscosity** 1036 mPa.s SPINDLE# LV-3 30rpm

**Explosive properties** Not available

**Oxidising properties** Not available

## 9.2. Other information

Information not available

## 10. STABILITY AND REACTIVITY

### ACETONE

It decomposes under the effect of heat. Reacts with bases.

### 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

The vapours may also form explosive mixtures with the air.

ACETONE

Risk of explosion on contact with: bromine trifluoride, fluorine dioxide, hydrogen peroxide, nitrosil chloride, 2-methyl-1,3-butadiene, nitromethane, nitrosyl perchlorate May react dangerously with: potassium tert-butoxide, hydroxides alkaline, bromine, bromoform, isoprene, sodium, sulfur dioxide, chromium trioxide, cromyl chloride, nitric acid, chloroform, acid peroxymonosulfuric, phosphorus oxychloride, chromosulfuric acid, fluorine, strong oxidizing agents, strong reducing agents. flammable in contact with: nitrosyl perchlorate.

## 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

ACETONE

Avoid exposure to: heat sources, open flames.

Flammable Keep away from open flames, sparks and other sources of ignition. Vapors are heavier than air, they expand to soil and form explosive mixtures with air.

## 10.5. Incompatible materials

ACETONE

Oxidizing agents. Alkalis. Amines.

## 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

ACETONE

It can develop: ketene, irritants.

In case of fire, the following can be released: carbon dioxide, carbon monoxide



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## 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

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

### 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

Does not meet the classification criteria for this hazard class

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**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

## **12. ECOLOGICAL INFORMATION**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### **12.1. Toxicity**

**ALCOHOL DENAT.**

|                                   |                                 |
|-----------------------------------|---------------------------------|
| LC50 - for Fish                   | 13 g/l SALMO GAIRDNERI          |
| EC50 - for Crustacea              | 12,34 g/l DAPHNIA MAGNA         |
| EC50 - for Algae / Aquatic Plants | 275 mg/l/72h CHLORELLA VULGARIS |

**GLYCERIN**

|                 |                            |
|-----------------|----------------------------|
| LC50 - for Fish | 54 g/l oncorhynchus mykiss |
|-----------------|----------------------------|

**ACETONE**

|   |                                    |
|---|------------------------------------|
| LC50 - for Fish                         | 5540 mg/l/96h specie d'acqua dolce |
| EC50 - for Crustacea                    | 8800 mg/l/48h                      |
| Chronic NOEC for Algae / Aquatic Plants | 430 mg/l                           |



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## **12.2. Persistence and degradability**

ALCOHOL DENAT.

Rapidly degradable

ACETONE

Rapidly degradable

## **12.3. Bioaccumulative potential**

Information not available

## **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  $\geq$  than 0,1%.

## **12.6. Other adverse effects**

Information not available

# **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.



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## CONTAMINATED PACKAGING

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

## 14. TRANSPORT INFORMATION

### 14.1. UN number

ADR / RID, IMDG, IATA: 1993

### 14.2. UN proper shipping name

ADR / RID: FLAMMABLE LIQUID, N.O.S. (ALCOHOL DENAT. ; BUTYL ESTER OF PVM/MA COPOLYMER)

IMDG: FLAMMABLE LIQUID, N.O.S. (ALCOHOL DENAT. ; BUTYL ESTER OF PVM/MA COPOLYMER)

IATA: FLAMMABLE LIQUID, N.O.S. (ALCOHOL DENAT. ; BUTYL ESTER OF PVM/MA COPOLYMER)

### 14.3. Transport hazard class(es)

ADR / RID: Class: 3      Label: 3

IMDG: Class: 3      Label: 3

IATA: Class: 3      Label: 3



### 14.4. Packing group

ADR / RID, IMDG, IATA: II

### 14.5. Environmental hazards

ADR / RID: NO

IMDG: NO



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IATA: NO

## 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33      Limited Quantities: 1 L      Tunnel restriction code: (D/E)

IMDG:      Special provision: 640D      EMS: F-E, S-E      Limited Quantities: 1 L

IATA:      Cargo:      Maximum quantity: 60L      Packaging instructions: 364

Pass.:      Maximum quantity: 5L      Packaging instructions: 353

Special provision: A3

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

Information not relevant

## 15. REGULATORY INFORMATION

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

Seveso Category - Directive 2012/18/EC: P5c

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

#### Product

Point      3-40

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors

Regulated explosives precursor

The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9.

All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

Substances in Candidate List (Art. 59 REACH)

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





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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.

## 16. OTHER INFORMATION

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

|                     |  |
|---------------------|--|
| <b>Flam. Liq. 2</b> | Flammable liquid, category 2                                 |
| <b>Eye Dam. 1</b>   | Serious eye damage, category 1                               |
| <b>Eye Irrit. 2</b> | Eye irritation, category 2                                   |
| <b>STOT SE 3</b>    | Specific target organ toxicity - single exposure, category 3 |
| <b>H225</b>         | Highly flammable liquid and vapour.                          |
| <b>H318</b>         | Causes serious eye damage.                                   |
| <b>H319</b>         | Causes serious eye irritation.                               |

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**H336**

May cause drowsiness or dizziness.

**EUH066**

Repeated exposure may cause skin dryness or cracking.

**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
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)

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- 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)
- 17. Regulation (EU) 2019/1148
- 18. Regulation (EU) 2020/217 (XIV 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.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.