# Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**

Code: **M8100**

Product name **CRYSTAL**

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

Intended use **silicone wax for marble and granite.**

Uses advised against: no one in particular

| Identified Uses | Industrial | Professional | Consumer |
| --- | --- | --- | --- |
| Preparazione e (re)imballo di sostanze e miscele | ERC: 2.<br>PROC: 1, 15, 2, 3, 4, 5, 8b. | - | - |
| Distribuzione della sostanza | ERC: 2.<br>PROC: 1, 15, 3, 4, 5, 8a, 8b, 9. | - | - |
| Fabbricazione di rivestimenti, adesivi e inchiostri | ERC: 2.<br>PROC: 1, 15, 2, 3, 4, 5, 8a, 8b, 9. | - | - |
| Uso di rivestimento e adesivi | ERC: 4.<br>PROC: 1, 10, 13, 15, 2, 3, 4, 5, 7, 8a, 8b. | - | - |
| Uso negli adesivi e sigillanti | ERC: 5.<br>PROC: 1, 10, 13, 15, 2, 3, 4, 5, 7, 8b. | - | - |
| Uso di rivestimenti e adesivi | - | ERC: 8a, 8d.<br>PROC: 1, 10, 11, 13, 15, 19, 2, 3, 4, 5, 8a, 8b. | - |
| Uso di rivestimenti e adesivi | - | - | ERC: 8a, 8d.<br>PC: 18, 9a, 9b, 9c. |
| Uso negli adesivi sigillanti | - | - | ERC: 8a, 8f.<br>PC: 1. |

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

Name **ILPA ADESIVI SRL**

Full address **Via Ferorelli, 4**

District and Country **70132 BARI (BARI)**
**ITALIA**

**Tel. + 39 0805383837**

**Fax + 39 0805377807**

e-mail address of the competent person

responsible for the Safety Data Sheet **laboratorio@ilpa.it**

**1.4. Emergency telephone number**

For urgent inquiries refer to **+ 39 0808974667 (Technical support - 8,00 - 17,00 - LUN-VEN; MON-FRI)(Italian time zone)**
Safety Executive (HSE) Chemicals Regulation Directorate 5S.1 Redgrave Court, Merton Road, Bootle, Merseyside. L20 7HS.

Phone: +44 151 9513317

## SECTION 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.

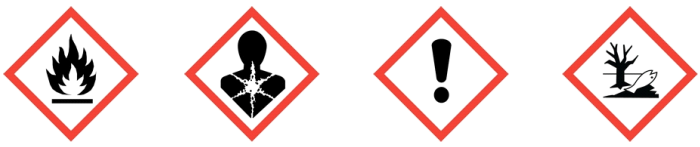
Hazard classification and indication:

| | | |
| --- | --- | --- |
| Flammable liquid, category 3 | H226 | Flammable liquid and vapour. |
| Aspiration hazard, category 1 | H304 | May be fatal if swallowed and enters airways. |
| Skin irritation, category 2 | H315 | Causes skin irritation. |
| Skin sensitization, category 1 | H317 | May cause an allergic skin reaction. |
| Hazardous to the aquatic environment, acute toxicity, category 1 | H400 | Very toxic to aquatic life. |
| Hazardous to the aquatic environment, chronic toxicity, category 1 | H410 | Very toxic to aquatic life with long lasting effects. |

### 2.2. Label elements

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

Hazard pictograms:



Signal words: Danger

Hazard statements:

| | |
| --- | --- |
| **H226** | Flammable liquid and vapour. |
| **H304** | May be fatal if swallowed and enters airways. |
| **H315** | Causes skin irritation. |
| **H317** | May cause an allergic skin reaction. |
| **H410** | Very toxic to aquatic life with long lasting effects. |

Precautionary statements:

| | |
| --- | --- |
| **P102** | Keep out of reach of children. |
| **P210** | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| **P280** | Wear protective gloves/ protective clothing / eye protection / face protection. |
| **P301+P310** | IF SWALLOWED: Immediately call a POISON CENTER / doctor |
| **P331** | Do NOT induce vomiting. |
| **P501** | Dispose of contents / container to compliance with local regulations. |

**Contains:** (R)-P-MENTA-1,8-DIENE

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

**3.1. Substances**

Information not relevant

**3.2. Mixtures**

Contains:

| Identification | x = Conc. % | Classification 1272/2008 (CLP) |
| --- | --- | --- |
| **(R)-P-MENTA-1,8-DIENE** | | |
| CAS 5989-27-5 | 90 ≤ x < 94 | Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1, Classification note according to Annex VI to the CLP Regulation: C |
| EC 227-813-5 | | |
| INDEX 601-029-00-7 | | |
| Reg. no. 01-2119529223-47 | | |

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. 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.

PROTECTIVE MEASURES FOR THE FIRST RESCUE WORKERS: for PPE (personal protection equipment) required for first aid refer to section 8.2 of this safety data sheet.

**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
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).

## 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.

Send away individuals who are not suitably equipped. 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. If the product is flammable, use explosion-proof equipment. 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**

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. Do not eat, drink or smoke

during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

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

No use other than specified in Section 1.2 of this safety data sheet.

## SECTION 8. Exposure controls/personal protection

**8.1. Control parameters**

Regulatory References:

| | | |
|---|---|---|
| DEU | Deutschland | TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte |

**(R)-P-MENTA-1,8-DIENE**

**Threshold Limit Value**

| Type | Country | TWA/8h | | STEL/15min | | |
|---|---|---|---|---|---|---|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| MAK | DEU | 28 | 5 | 112 | 20 | SKIN |

| Predicted no-effect concentration - PNEC | | |
|---|---|---|
| Normal value in fresh water | 0,0054 | mg/l |
| Normal value in marine water | 54 | mg/l |
| Normal value for fresh water sediment | 1,32 | mg/kg |
| Normal value for marine water sediment | 0,13 | mg/kg |
| Normal value of STP microorganisms | 1,8 | mg/l |
| Normal value for the food chain (secondary poisoning) | 3,33 | mg/kg |
| Normal value for the terrestrial compartment | 0,26 | 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 | | | | 4,76 mg/kg bw/d | | | | 33,3 |
| Inhalation | | | 8,33 | 8,33 mg/m3 | | | 33,3 mg/m3 | 33,3 mg/m3 |
| Skin | 0,111 mg/cm2 | | | | 0,222 mg/cm2 | | | |

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.
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 Directive 89/686/EEC 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.

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 |
| Colour | opalescent |
| Odour | aromatic |
| Odour threshold | Not available |
| pH | Not applicable |
| Melting point / freezing point | -74°C at 1013 hPa ((R)-P-MENTA-1,8-DIENE, ICSC 0918) |
| Initial boiling point | 178 °C at 1013 hPa ((R)-P-MENTA-1,8-DIENE, ICSC 0918) |
| Boiling range | Not available |
| Flash point | 23 ≤ T ≤ 60 °C |
| Evaporation rate | Not available |
| Flammability (solid, gas) | Not applicable |
| Lower inflammability limit | Not available |
| Upper inflammability limit | Not available |
| Lower explosive limit | 0,7 vol% ((R)-P-MENTA-1,8-DIENE |
| Upper explosive limit | 6,1 vol% ((R)-P-MENTA-1,8-DIENE |
| Vapour pressure | 0,19 hPa at 20°C ((R)-P-MENTA-1,8-DIENE, ICSC 0918) |
| Vapour density | 4,7 (air =1) ((R)-P-MENTA-1,8-DIENE, ICSC 0918) |
| Relative density | 1,27 g/ml |
| Solubility | insoluble in water |
| Partition coefficient: n-octanol/water | 4,38 LogPow ((R)-P-MENTA-1,8-DIENE |

| | |
|---|---|
| Auto-ignition temperature | 237°C ((R)-P-MENTA-1,8-DIENE, ICSC 0918) |
| Decomposition temperature | Not available |
| Viscosity | 18 mm2/s at 20°C ((R)-P-MENTA-1,8-DIENE) |
| Explosive properties | Not available |
| Oxidising properties | Not available |

**9.2. Other information**

| | |
|---|---|
| VOC (Directive 2010/75/EC) : | 92,30 % |
| VOC (volatile carbon) : | 81,30 % |

## SECTION 10. Stability and reactivity

**10.1. Reactivity**

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

(R)-P-MENTA-1,8-DIENE
Avoid contact with: oxidising agents,strong acids.

**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.

(R)-P-MENTA-1,8-DIENE
May react with: oxidising agents.

**10.4. Conditions to avoid**

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

**10.5. Incompatible materials**

Information not available

**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.

## 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)

(R)-P-MENTA-1,8-DIENE

LD50 (Oral) > 2000 mg/kg Rat, according to (OECD 423)

LD50 (Dermal) > 5000 mg/kg

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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

Toxic for aspiration

## SECTION 12. Ecological information

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

**12.1. Toxicity**

| (R)-P-MENTA-1,8-DIENE | |
|---|---|
| LC50 - for Fish | 0,72 mg/l/96h Pimephales promelas, according to (OECD Guideline 203) |
| EC50 - for Crustacea | 0,85 mg/l/48h Daphnia magna, according to (OECD Guideline 202) |
| EC50 - for Algae / Aquatic Plants | 0,32 mg/l/72h Pseudokirchneriella subcapitata, according to (OECD Guideline 201) |
| Chronic NOEC for Fish | 0,37 mg/l Pimephales promelas. 8 d according to (OECD Guideline 212) |
| Chronic NOEC for Crustacea | 80 mg/l Daphnia magna, 21 d according to (OECD Guideline 211) |

**12.2. Persistence and degradability**

| (R)-P-MENTA-1,8-DIENE | |
|---|---|
| Solubility in water | 0,1 - 100 mg/l |

Rapidly degradable
28 d 80% according to (OECD Guideline 301 B)

**12.3. Bioaccumulative potential**

| (R)-P-MENTA-1,8-DIENE | |
|---|---|
| Partition coefficient: n-octanol/water | 4,38 |
| BCF | 1022 |

**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**

ADR / RID, IMDG, IATA: 1993

**14.2. UN proper shipping name**

| | |
|---|---|
| ADR / RID: | FLAMMABLE LIQUID, N.O.S. (Contens: (R)-P-MENTA-1,8-DIENE) MIXTURE |
| IMDG: | FLAMMABLE LIQUID, N.O.S. (Contens: (R)-P-MENTA-1,8-DIENE) MIXTURE |
| IATA: | FLAMMABLE LIQUID, N.O.S. (Contens: (R)-P-MENTA-1,8-DIENE) MIXTURE |

**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: | Environmentally Hazardous |
| IMDG: | Marine Pollutant |
| IATA: | NO |

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

**14.6. Special precautions for user**

| | | | |
|---|---|---|---|
| ADR / RID: | HIN - Kemler: 33 | Limited Quantities: 1 L | Tunnel restriction code: (D/E) |
| | Special Provision: - | | |
| IMDG: | EMS: F-E, S-E | Limited Quantities: 1 L | |
| IATA: | Cargo: | Maximum quantity: 60 L | Packaging instructions: 364 |
| | Pass.: | Maximum quantity: 5 L | Packaging instructions: 353 |
| | Special Instructions: | A3 | |

**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: P5b FLAMMABLE LIQUIDS
H1 HEALTH HAZARDS
E1 ENVIRONMENTAL HAZARDS

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

Product

| | |
|---|---|
| Point | 3. Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/ 2008:<br>(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;<br>(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;<br>(c) hazard class 4.1;<br>(d) hazard class 5.1.<br><br>40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not. |

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 authorisarion (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.

German regulation on the classification of substances hazardous to water (VwVwS 2005)

WGK 2: Hazard to waters

**15.2. Chemical safety assessment**

A chemical safety assessment has been performed for the following contained substances

(R)-P-MENTA-1,8-DIENE

## SECTION 16. Other information

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

| | |
| --- | --- |
| **Flam. Liq. 3** | Flammable liquid, category 3 |
| **Asp. Tox. 1** | Aspiration hazard, category 1 |
| **Skin Irrit. 2** | Skin irritation, category 2 |
| **Skin Sens. 1** | Skin sensitization, category 1 |
| **Aquatic Acute 1** | Hazardous to the aquatic environment, acute toxicity, category 1 |
| **Aquatic Chronic 1** | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| **H226** | Flammable liquid and vapour. |
| **H304** | May be fatal if swallowed and enters airways. |
| **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. |

Use descriptor system:

| | | |
| --- | --- | --- |
| **ERC** | **2** | Formulation of preparations |
| **ERC** | **4** | Industrial use of processing aids in processes and products, not becoming part of articles |
| **ERC** | **5** | Industrial use resulting in inclusion into or onto a matrix |
| **ERC** | **8a** | Wide dispersive indoor use of processing aids in open systems |
| **ERC** | **8d** | Wide dispersive outdoor use of processing aids in open systems |
| **ERC** | **8f** | Wide dispersive outdoor use resulting in inclusion into or onto a matrix |
| **PC** | **1** | Adhesives, sealants |
| **PC** | **18** | Ink and toners |
| **PC** | **9a** | Coatings and paints, thinners, paint removers |
| **PC** | **9b** | Fillers, putties, plasters, modelling clay |
| **PC** | **9c** | Finger paints |

| | | |
|---|---|---|
| **PROC** | **1** | Use in closed process, no likelihood of exposure |
| **PROC** | **10** | Roller application or brushing |
| **PROC** | **11** | Non industrial spraying |
| **PROC** | **13** | Treatment of articles by dipping and pouring |
| **PROC** | **15** | Use as laboratory reagent |
| **PROC** | **19** | Hand-mixing with intimate contact and only PPE available |
| **PROC** | **2** | Use in closed, continuous process with occasional controlled exposure |
| **PROC** | **3** | Use in closed batch process (synthesis or formulation) |
| **PROC** | **4** | Use in batch and other process (synthesis) where opportunity for exposure arises |
| **PROC** | **5** | Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) |
| **PROC** | **7** | Industrial spraying |
| **PROC** | **8a** | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities |
| **PROC** | **8b** | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities |
| **PROC** | **9** | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
| **SU** | **21** | Consumer uses |
| **SU** | **22** | Professional uses |
| **SU** | **3** | Industrial uses |

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

Training for workers:
Worker training should include content, updates and duration depending on the risk profiles assigned to the business sectors they belong

| **Classification according to Regulation (EC) Nr. 1272/2008** | **Classification procedure** |
| --- | --- |
| Flam. Liq. 3, H226 | Calculation method |
| Asp. Tox. 1, H304 | Calculation method |
| Skin Irrit. 2, H315 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| Aquatic Chronic 1, H410 | Calculation method |