

## Safety data sheet

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

#### 1.1. Product identifier.

Code: **01020**  
Product name: **ARTISTI OIL COLOURS 01020 Zinc White**

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

Intended use: **Oil colour.**

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

Name: **INDUSTRIA MAIMERI S.P.A.**  
Full address: **Via Gianni Maimeri, 1**  
District and Country: **20060 Mediglia (MI)**  
**Italia**  
Tel. **+39 02 906981**  
Fax. **+39 02 90698999**

e-mail address of the competent person responsible for the Safety Data Sheet: **schedesicurezza@maimeri.it**

Product distribution by: **INDUSTRIA MAIMERI S.P.A. VIA G.MAIMERI 1 20060 BETTOLINO DI MEDIGLIA (MI) ITALY**

#### 1.4. Emergency telephone number.

For urgent inquiries refer to:  
**Australia : 131126**  
**USA: 1 800 222 1222**  
**Regno Unito NHS Direct (UK): +44 (0) 845 46 47**

### 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 EC Regulation 1907/2006 and subsequent amendments.

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:

|  |      |   |
|--|------|---|
| 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: **Warning**

Hazard statements:  
**H410** Very toxic to aquatic life with long lasting effects.

Precautionary statements:

## ARTISTI OIL COLOURS

## 01020 Zinc White

## SECTION 2. Hazards identification. ... / &gt;&gt;

|             |   |
|-------------|---|
| <b>P273</b> | Avoid release to the environment.   |
| <b>P391</b> | Collect spillage.   |
| <b>P501</b> | Dispose of contents / container to in accordance with local and national norms. . . |

## 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). |
|-----------------|--------------|---------------------------------|
|-----------------|--------------|---------------------------------|

**ZINC OXIDE**

|      |           |                  |  |
|------|-----------|------------------|--|
| CAS. | 1314-13-2 | $70 \leq x < 74$ | Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 |
|------|-----------|------------------|--|

|     |           |  |  |
|-----|-----------|--|--|
| EC. | 215-222-5 |  |  |
|-----|-----------|--|--|

|        |              |  |  |
|--------|--------------|--|--|
| INDEX. | 030-013-00-7 |  |  |
|--------|--------------|--|--|

|          |                       |  |  |
|----------|-----------------------|--|--|
| Reg. no. | 01-2119463881-32-0000 |  |  |
|----------|-----------------------|--|--|

**DIETHYLENE GLYCOL MONOBUTYL ETHER**

|      |          |                   |                   |
|------|----------|-------------------|-------------------|
| CAS. | 112-34-5 | $0 \leq x < 0,05$ | Eye Irrit. 2 H319 |
|------|----------|-------------------|-------------------|

|     |           |  |  |
|-----|-----------|--|--|
| EC. | 203-961-6 |  |  |
|-----|-----------|--|--|

|        |              |  |  |
|--------|--------------|--|--|
| INDEX. | 603-096-00-8 |  |  |
|--------|--------------|--|--|

**Distillates (petroleum), hydrotreated light**

|      |            |                   |                          |
|------|------------|-------------------|--------------------------|
| CAS. | 64742-47-8 | $0 \leq x < 0,05$ | Asp. Tox. 1 H304, Note 4 |
|------|------------|-------------------|--------------------------|

|     |           |  |  |
|-----|-----------|--|--|
| EC. | 265-149-8 |  |  |
|-----|-----------|--|--|

|        |              |  |  |
|--------|--------------|--|--|
| INDEX. | 649-422-00-2 |  |  |
|--------|--------------|--|--|

**1,2,4-TRIMETHYLBENZENE**

|      |         |                   |   |
|------|---------|-------------------|---|
| CAS. | 95-63-6 | $0 \leq x < 0,05$ | Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 2 H411 |
|------|---------|-------------------|---|

|     |           |  |  |
|-----|-----------|--|--|
| EC. | 202-436-9 |  |  |
|-----|-----------|--|--|

|        |              |  |  |
|--------|--------------|--|--|
| INDEX. | 601-043-00-3 |  |  |
|--------|--------------|--|--|

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.

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

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

For symptoms and effects caused by the contained substances, see chap. 11.

## 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.

**SECTION 5. Firefighting measures. ... / >>****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.

**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.**

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.**

Regulatory References:

|     |                |   |
|-----|----------------|---|
| DEU | Deutschland    | MAK-und BAT-Werte-Liste 2012  |
| DNK | Danmark        | Graensevaerdier per stoffer og materialer   |
| ESP | España         | INSHT - Límites de exposición profesional para agentes químicos en España 2015      |
| FRA | France         | JORF n°0109 du 10 mai 2012 page 8773 texte n° 102                                   |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits   |
| GRC | Ελλάδα         | ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012           |
| ITA | Italia         | Decreto Legislativo 9 Aprile 2008, n.81   |
| NLD | Nederland      | Databank of the social and Economic Council of Netherlands (SER) Values, AF 2011:18 |

## ARTISTI OIL COLOURS

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

|     |                     |  |
|-----|---------------------|--|
| NOR | Norge               | Veiledning om Administrative normer for forurensning i arbeidsatmosfære  |
| POL | Polska              | ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r  |
| PRT | Portugal            | Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diaro da Republica l 26; 2012-02-06 |
| SWE | Sverige             | Occupational Exposure Limit Values, AF 2011:18   |
| TUR | Türkiye             | 2000/39/EC sayılı Direktifin ekidir  |
| EU  | OEL EU<br>TLV-ACGIH | Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.<br>ACGIH 2016   |

#### ZINC OXIDE

##### Threshold Limit Value.

| Type      | Country | TWA/8h |     | STEL/15min |     |
|-----------|---------|--------|-----|------------|-----|
|           |         | mg/m3  | ppm | mg/m3      | ppm |
| TLV-ACGIH |         | 5      |     | 15         |     |

#### DIETHYLENE GLYCOL MONOBUTYL ETHER

##### Threshold Limit Value.

| Type | Country | TWA/8h |     | STEL/15min |     |
|------|---------|--------|-----|------------|-----|
|      |         | mg/m3  | ppm | mg/m3      | ppm |
| MAK  | DEU     | 100    |     | 100        |     |
| TLV  | DNK     | 100    |     |            |     |
| VLA  | ESP     | 100    |     |            |     |
| MAC  | NLD     |        | 9   |            |     |
| MAK  | SWE     |        | 15  |            | 30  |
| OEL  | EU      | 67,5   | 10  | 101,2      | 15  |

#### Distillates (petroleum), hydrotreated light

##### Threshold Limit Value.

| Type | Country | TWA/8h |     | STEL/15min |     |
|------|---------|--------|-----|------------|-----|
|      |         | mg/m3  | ppm | mg/m3      | ppm |
| VLEP | ITA     | 1200   | 165 |            |     |
| OEL  | EU      | 1200   | 165 |            |     |

#### 1,2,4-TRIMETHYLBENZENE

##### Threshold Limit Value.

| Type      | Country | TWA/8h |     | STEL/15min |     |
|-----------|---------|--------|-----|------------|-----|
|           |         | mg/m3  | ppm | mg/m3      | ppm |
| AGW       | DEU     | 100    | 20  | 200        | 40  |
| MAK       | DEU     |        | 20  |            | 40  |
| TLV       | DNK     | 100    | 20  |            |     |
| VLA       | ESP     | 100    | 20  |            |     |
| VLEP      | FRA     | 100    | 20  | 250        | 50  |
| WEL       | GBR     |        | 25  |            |     |
| TLV       | GRC     | 125    | 25  |            |     |
| VLEP      | ITA     | 100    | 20  |            |     |
| OEL       | NLD     | 100    |     | 200        |     |
| TLV       | NOR     | 100    | 20  |            |     |
| NDS       | POL     | 100    |     | 170        |     |
| VLE       | PRT     | 100    | 20  |            |     |
| MAK       | SWE     | 120    | 25  | 170        | 35  |
| ESD       | TUR     | 100    | 20  |            |     |
| OEL       | EU      | 100    | 20  |            |     |
| TLV-ACGIH |         | 123    | 25  |            |     |

##### Legend:

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

### 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.

#### HAND PROTECTION

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

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

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 Directive 89/686/EEC 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 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.

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                             |   | paste                               |
| Colour                                 |   | white                               |
| Odour                                  |   | OIL                                 |
| Odour threshold.                       |   | Not available.                      |
| pH.                                    |   |                                     |
| Melting point / freezing point.        |   | Not available.                      |
| Initial boiling point.                 |   | Not available.                      |
| Boiling range.                         |   | Not available.                      |
| Flash point.                           | > | 60 °C.                              |
| Evaporation Rate                       |   | Not available.                      |
| Flammability of solids and gases       |   | 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.                      |   | 0,2                                 |
| Solubility                             |   | INSOLUBLE, DILUTE WITH WHITE SPIRIT |
| Partition coefficient: n-octanol/water |   | Not available.                      |
| Auto-ignition temperature.             |   | Not available.                      |
| Decomposition temperature.             |   | Not available.                      |
| Viscosity                              |   | Not available.                      |
| Explosive properties                   |   | Not available.                      |
| Oxidising properties                   |   | Not available.                      |

#### 9.2. Other information.

|                              |                |          |
|------------------------------|----------------|----------|
| Total solids (250°C / 482°F) | 99,32 %        |          |
| VOC (Directive 2010/75/EC) : | 0,68 % - 17,06 | g/litre. |
| VOC (volatile carbon) :      | 0,58 % - 14,45 | g/litre. |

### 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.

**SECTION 10. Stability and reactivity. ... / >>****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.**ACUTE TOXICITY.

|   |  |
|---|--|
| LC50 (Inhalation - vapours) of the mixture:         | Not classified (no significant component). |
| LC50 (Inhalation - mists / powders) 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). |

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.

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.

**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.**

Information not available.

**12.2. Persistence and degradability.**

## ARTISTI OIL COLOURS

## 01020 Zinc White

**SECTION 12. Ecological information.** ... / >>

1,2,4-TRIMETHYLBENZENE  
Solubility in water. 0,1 - 100 mg/l  
Rapidly biodegradable.

**12.3. Bioaccumulative potential.**

1,2,4-TRIMETHYLBENZENE  
Partition coefficient: n-octanol/water. 3,65  
BCF. 243

**12.4. Mobility in soil.**

1,2,4-TRIMETHYLBENZENE  
Partition coefficient: soil/water. 3,04

**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.**

INFORMATION ON TRANSPORT OUTSIDE EU MEMBER NATIONS: NOT USDOT OR IMO REGULATED.

**14.1. UN number.**

ADR / RID, IMDG, IATA: 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

**14.2. UN proper shipping name.**

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE)

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### SECTION 14. Transport information. ... / >>

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

ADR / RID:                    Class: 9                    Label: 9



IMDG:                            Class: 9                    Label: 9



IATA:                            Class: 9                    Label: 9



#### 14.4. Packing group.

ADR / RID, IMDG, IATA:    III

#### 14.5. Environmental hazards.

ADR / RID:                    Environmentally Hazardous.



IMDG:                            Marine Pollutant.



IATA:                            Environmentally Hazardous.



#### 14.6. Special precautions for user.

|            |  |  |  |
|------------|--|--|--|
| ADR / RID: | HIN - Kemler: 90<br>Special Provision: - | Limited Quantities: 5 L                    | Tunnel restriction code: (E)                               |
| IMDG:      | EMS: F-A, S-F                            | Limited Quantities: 5 L                    | Packaging instructions: 964<br>Packaging instructions: 964 |
| IATA:      | Cargo:                                   | Maximum quantity: 450 L                    |  |
|            | Pass.:<br>Special Instructions:          | Maximum quantity: 450 L<br>A97, A158, A197 |  |

#### 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:                    E1

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

Product.

Point.                            3

Contained substance.

Point.                            55                            DIETHYLENE GLYCOL MONOBUTYL ETHER

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.



**SECTION 15. Regulatory information. ... / >>**Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls:

Information not available.

**15.2. Chemical safety assessment.**

No chemical safety assessment has been processed for the mixture and the substances it contains.

**SECTION 16. Other information.**

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

|                          |  |
|--------------------------|--|
| <b>Flam. Liq. 3</b>      | Flammable liquid, category 3                                       |
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4   |
| <b>Asp. Tox. 1</b>       | Aspiration hazard, category 1                                      |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2   |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2  |
| <b>STOT SE 3</b>         | Specific target organ toxicity - single exposure, category 3       |
| <b>Aquatic Acute 1</b>   | Hazardous to the aquatic environment, acute toxicity, category 1   |
| <b>Aquatic Chronic 1</b> | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| <b>Aquatic Chronic 2</b> | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| <b>Aquatic Chronic 3</b> | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| <b>Aquatic Chronic 4</b> | Hazardous to the aquatic environment, chronic toxicity, category 4 |
| <b>H226</b>              | Flammable liquid and vapour.                                       |
| <b>H332</b>              | Harmful if inhaled.  |
| <b>H304</b>              | May be fatal if swallowed and enters airways.                      |
| <b>H319</b>              | Causes serious eye irritation.                                     |
| <b>H315</b>              | Causes skin irritation.  |
| <b>H335</b>              | May cause respiratory irritation.                                  |
| <b>H400</b>              | Very toxic to aquatic life.  |
| <b>H410</b>              | Very toxic to aquatic life with long lasting effects.              |
| <b>H411</b>              | Toxic to aquatic life with long lasting effects.                   |
| <b>H412</b>              | Harmful to aquatic life with long lasting effects.                 |
| <b>H413</b>              | May cause long lasting harmful effects to aquatic life.            |

**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

**SECTION 16. Other information. ... / >>**

- 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 (EU) 1907/2006 (REACH) of the European Parliament
2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
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4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
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8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament

- 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
- ECHA website

**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.

**Changes to previous review:**

The following sections were modified:

01 / 02 / 03 / 04 / 08 / 09 / 11 / 14 / 15 / 16.