

# Security data sheet



Product: 43

Manufacturer: PERMABOND ENGINEERING ADHESIVES

Product group: KLEBSTOFF

Article group: INITIATOR

Download: 04.05.2024

## PERMABOND INITIATOR 43

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## Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

#### 1.1. Product identifier

Product name **Permabond Initiator 43**

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

Intended use **Adhesive**

| Identified Uses | Industrial | Professional | Consumer |
|-----------------|------------|--------------|----------|
| Use             | ✓          | ✓            | -        |

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

Name **Permabond Engineering Adhesives**  
Full address **Niederkasseler Lohweg 18**  
District and Country **40547 Düsseldorf Germany**  
Tel. **+44 (0)1962 711 661**  
e-mail address of the competent person responsible for the Safety Data Sheet **info.europe@permabond.com**  
Supplier: **Permabond Engineering Adhesives Ltd**  
**Wessex Way, Colden Common,**  
**Winchester, Hampshire SO21 1WP, UK**  
tel: **+44 (0)1962 711 661**  
mail: **info.europe@permabond.com**

#### 1.4. Emergency telephone number

For urgent inquiries refer to **+44 (0)1962 711 661 ( 8.00 am-5.00 pm Mon-Fri)**

**CHEMTREC UK: +(44)-870-8200418**  
**CHEMTREC Ireland: +(353)-19014670**  
**CHEMTREC Australia: +(61)-290372994**  
**CHEMTREC New Zealand: +(64)-98010034**

### 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 2020/878.

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:

|  |      |  |
|--|------|--|
| Eye irritation, category 2   | H319 | Causes serious eye irritation.                     |
| Hazardous to the aquatic environment, chronic toxicity, category 3 | H412 | Harmful 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:



## SECTION 2. Hazards identification ... / >>

Signal words: Warning

Hazard statements:

**H319** Causes serious eye irritation.  
**H412** Harmful to aquatic life with long lasting effects.  
**EUH208** Contains: NAPHTHENIC ACID  
NAPHTHENIC ACIDS, COPPER SALTS  
May produce an allergic reaction.

Precautionary statements:

**P273** Avoid release to the environment.  
**P280** Wear protective gloves/ protective clothing / eye protection / face protection.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 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%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

### 3.2. Mixtures

Contains:

| Identification   | x = Conc. %                    | Classification (EC) 1272/2008 (CLP)  |
|--|--------------------------------|--|
| <b>(2,2-DIMETHYL-1,3-DIOXOLAN-4-YL)METHYL METHACRYLATE</b>                     |                                |  |
| INDEX  | $60 \leq x < 100$              | Eye Irrit. 2 H319  |
| EC   | 230-408-6                      |  |
| CAS  | 7098-80-8                      |  |
| REACH Reg.   | 01-2120763241-62-XXXX          |  |
| <b>HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, &lt;2% AROMATICS</b> |                                |  |
| INDEX  | $1 \leq x < 5$                 | Asp. Tox. 1 H304   |
| EC   | 918-481-9                      |  |
| CAS  |                                |  |
| REACH Reg.   | 01-2119457273-39-XXXX          |  |
| <b>COPPER 2-ETHYLHEXANOATE</b>   |                                |  |
| INDEX  | $0,1 \leq x < 1$               | Repr. 2 H361d, Acute Tox. 4 H302, Eye Dam. 1 H318, Aquatic Acute 1 H400<br>M=10, Aquatic Chronic 2 H411<br>STA Oral: 500 mg/kg       |
| EC   | 244-846-0                      |  |
| CAS  | 22221-10-9                     |  |
| REACH Reg.   | 01-2120789200-58-XXXX          |  |
| <b>NAPHTHENIC ACIDS, COPPER SALTS</b>  |                                |  |
| INDEX  | 029-003-00-5 $0,25 \leq x < 1$ | Flam. Liq. 3 H226, Acute Tox. 4 H302, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1<br>STA Oral: 500 mg/kg |
| EC   | 215-657-0                      |  |
| CAS  | 1338-02-9                      |  |
| REACH Reg.   | 01-2120796341-51-0000          |  |
| <b>2-Ethylsanoic acid</b>  |                                |  |
| INDEX  | 607-230-00-6 $0,1 \leq x < 1$  | Repr. 2 H361d  |
| EC   | 205-743-6                      |  |
| CAS  | 149-57-5                       |  |
| REACH Reg.   | 01-2119488942-23-XXXX          |  |
| <b>NAPHTHENIC ACID</b>   |                                |  |
| INDEX  | $0,1 \leq x < 1$               | Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317   |
| EC   | 215-662-8                      |  |
| CAS  | 1338-24-5                      |  |
| REACH Reg.   | 01-2119552477-31-XXXX          |  |

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

#### COPPER (II) ACETATE

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$0,1 \leq x < 1$

Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 2 H411  
STA Oral: 500 mg/kg

EC 205-553-3

CAS 142-71-2

REACH Reg. 01-2119980669-16-XXXX

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

Skin: Wash the skin thoroughly with soap and water. If symptoms arise, request medical assistance

Eyes: Make sure you have removed any contact lenses before rinsing your eyes. Wash

Readily and abundantly the eyes with water keeping the eyelids open.

Continue to rinse for at least 15 minutes. Consult a doctor if the discomfort continues.

Ingestion: rinse the mouth with water thoroughly. Make a abundant quantity of water drink.

Do not cause vomiting. Consult a doctor.

Inhalation: move the subject exposed in the open air. Consult a doctor in case of serious symptoms or persistent.

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

Contact with the skin: skin irritation. Mild dermatitis, allergic rash.

Contact with eyes: irritating and can cause redness and pain.

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

Note for the doctor no specific recommendation. Symptomatic treatment.

### SECTION 5. Firefighting measures

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE

Avoid breathing combustion products, carbon monoxide (CO), carbon dioxide (CO2), and nitric oxides (NOx).

#### 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

### SECTION 6. Accidental release measures ... / >>

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

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

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

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

#### 6.4. Reference to other sections

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

### SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

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 cool and 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)

Adhesive

### SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

Regulatory references:

|     |                |   |
|-----|----------------|---|
| BGR | България       | НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)  |
| ESP | España         | Límites de exposición profesional para agentes químicos en España 2021  |
| FIN | Suomi          | HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25  |
| LTU | Lietuva        | Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo   |
| SWE | Sverige        | Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)   |
| SVK | Slovensko      | NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénym faktorom pri práci v znení neskorších predpisov |
| SVN | Slovenija      | Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)   |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020)   |

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

#### NAPHTHENIC ACIDS, COPPER SALTS

##### Threshold Limit Value

| Type | Country | TWA/8h    | STEL/15min | Remarks / Observations |
|------|---------|-----------|------------|------------------------|
|      |         | mg/m3 ppm | mg/m3 ppm  |                        |
| HTP  | FIN     | 2         |            |                        |

##### Predicted no-effect concentration - PNEC

|  |         |         |
|--|---------|---------|
| Normal value in fresh water                  | 0,00604 | mg/l    |
| Normal value in marine water                 | 0,0006  | mg/l    |
| Normal value for fresh water sediment        | 30,2    | mg/kg/d |
| Normal value for marine water sediment       | 3,02    | mg/kg/d |
| Normal value of STP microorganisms           | 0,14    | mg/l    |
| Normal value for the terrestrial compartment | 6,03    | mg/kg/d |

##### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |          | Effects on workers |            |
|-------------------|----------------------|----------|--------------------|------------|
|                   | Acute                | Acute    | Acute              | Chronic    |
|                   | local                | systemic | local              | systemic   |
| Oral              |                      |          | 0,18               |            |
|                   |                      |          | mg/kg bw/d         |            |
| Inhalation        |                      |          | 0,16               | 0,63       |
|                   |                      |          | mg/m3              | mg/m3      |
| Skin              |                      |          | 0,18               | 0,36       |
|                   |                      |          | mg/kg bw/d         | mg/kg bw/d |

#### 2-Ethylsanoic acid

##### Threshold Limit Value

| Type | Country | TWA/8h    | STEL/15min | Remarks / Observations |
|------|---------|-----------|------------|------------------------|
|      |         | mg/m3 ppm | mg/m3 ppm  |                        |
| VLA  | ESP     | 5         |            |                        |

##### Predicted no-effect concentration - PNEC

|  |       |         |
|--|-------|---------|
| Normal value in fresh water                  | 0,398 | mg/l    |
| Normal value in marine water                 | 0,04  | mg/l    |
| Normal value for fresh water sediment        | 4,74  | mg/kg/d |
| Normal value for marine water sediment       | 0,474 | mg/kg/d |
| Normal value of STP microorganisms           | 71,7  | mg/l    |
| Normal value for the terrestrial compartment | 0,712 | mg/kg/d |

##### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |          | Effects on workers |            |
|-------------------|----------------------|----------|--------------------|------------|
|                   | Acute                | Acute    | Acute              | Chronic    |
|                   | local                | systemic | local              | systemic   |
| Oral              |                      |          | 1                  |            |
|                   |                      |          | mg/kg bw/d         |            |
| Inhalation        |                      |          | 3,5                | 14         |
|                   |                      |          | mg/m3              | mg/m3      |
| Skin              |                      |          | 1                  | 2          |
|                   |                      |          | mg/kg bw/d         | mg/kg bw/d |

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

#### COPPER (II) ACETATE

##### Threshold Limit Value

| Type    | Country | TWA/8h<br>mg/m3 | ppm | STEL/15min<br>mg/m3 | ppm | Remarks / Observations |
|---------|---------|-----------------|-----|---------------------|-----|------------------------|
| TLV     | BGR     | 1               |     |                     |     | като мед               |
| VLA     | ESP     | 0,01            |     |                     |     | RESP Como Cu           |
| HTP     | FIN     | 0,02            |     |                     |     | RESP Som Cu            |
| RD      | LTU     | 1               |     |                     |     | INHAL Kaip Cu          |
| RD      | LTU     | 0,2             |     |                     |     | RESP Kaip Cu           |
| NGV/KGV | SWE     | 0,01            |     |                     |     | RESP Som Cu            |
| NPEL    | SVK     | 1               |     |                     |     | INHAL Ako Cu           |
| NPEL    | SVK     | 0,2             |     |                     |     | RESP Ako Cu            |
| MV      | SVN     | 1               |     | 4                   |     | INHAL                  |
| WEL     | GBR     | 1               |     | 2                   |     | As Cu                  |

##### Predicted no-effect concentration - PNEC

|  |        |         |
|--|--------|---------|
| Normal value in fresh water                  | 0,0078 | mg/l    |
| Normal value in marine water                 | 0,0052 | mg/l    |
| Normal value for fresh water sediment        | 87     | mg/kg/d |
| Normal value for marine water sediment       | 676    | mg/kg/d |
| Normal value of STP microorganisms           | 0,23   | mg/l    |
| Normal value for the terrestrial compartment | 65     | mg/kg/d |

##### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                   |                  |                     | Effects on workers |                   |                  |                        |
|-------------------|----------------------|-------------------|------------------|---------------------|--------------------|-------------------|------------------|------------------------|
|                   | Acute<br>local       | Acute<br>systemic | Chronic<br>local | Chronic<br>systemic | Acute<br>local     | Acute<br>systemic | Chronic<br>local | Chronic<br>systemic    |
| Oral              |                      |                   |                  | 0.041<br>mg/kg bw/d |                    |                   |                  | 0.082<br>mg/kg<br>bw/d |
| Inhalation        |                      |                   |                  |                     |                    |                   | 1<br>mg/m3       | 1<br>mg/m3             |
| Skin              |                      |                   |                  |                     |                    |                   |                  | 137<br>mg/kg<br>bw/d   |

#### COPPER 2-ETHYLHEXANOATE

##### Predicted no-effect concentration - PNEC

|  |        |         |
|--|--------|---------|
| Normal value in fresh water                  | 0,041  | mg/l    |
| Normal value in marine water                 | 0,027  | mg/l    |
| Normal value for fresh water sediment        | 457,9  | mg/kg/d |
| Normal value for marine water sediment       | 3557,9 | mg/kg/d |
| Normal value of STP microorganisms           | 1,21   | mg/l    |
| Normal value for the terrestrial compartment | 342,1  | mg/kg/d |

##### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |                   |                  |                     | Effects on workers |                   |                  |                       |
|-------------------|----------------------|-------------------|------------------|---------------------|--------------------|-------------------|------------------|-----------------------|
|                   | Acute<br>local       | Acute<br>systemic | Chronic<br>local | Chronic<br>systemic | Acute<br>local     | Acute<br>systemic | Chronic<br>local | Chronic<br>systemic   |
| Oral              |                      |                   |                  | 0,2<br>mg/kg bw/d   |                    |                   |                  |                       |
| Inhalation        |                      |                   |                  | 0,17<br>mg/m3       |                    |                   |                  | 0,69<br>mg/m3         |
| Skin              |                      |                   |                  | 0,2<br>mg/kg bw/d   |                    |                   |                  | 0,39<br>mg/kg<br>bw/d |

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

#### NAPHTHENIC ACID

##### Predicted no-effect concentration - PNEC

|  |         |         |
|--|---------|---------|
| Normal value in fresh water                  | 0,0056  | mg/l    |
| Normal value in marine water                 | 0,00056 | mg/l    |
| Normal value for fresh water sediment        | 28,2    | mg/kg/d |
| Normal value for marine water sediment       | 2,82    | mg/kg/d |
| Normal value of STP microorganisms           | 0,13    | mg/l    |
| Normal value for the terrestrial compartment | 5,61    | mg/kg/d |

##### Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers |          | Effects on workers |                    | Chronic | Chronic  | Chronic | Chronic               |
|-------------------|----------------------|----------|--------------------|--------------------|---------|----------|---------|-----------------------|
|                   | Acute                | Acute    |                    |                    |         |          |         |                       |
|                   | local                | systemic | local              | systemic           | local   | systemic | local   | systemic              |
| Oral              |                      |          |                    | 1,51<br>mg/kg bw/d |         |          |         |                       |
| Inhalation        |                      |          |                    | 5,25<br>mg/m3      |         |          |         | 21,3<br>mg/m3         |
| Skin              |                      |          |                    | 7,55<br>mg/kg bw/d |         |          |         | 15,1<br>mg/kg<br>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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

#### 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.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

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

##### SKIN PROTECTION

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

##### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

##### RESPIRATORY PROTECTION

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

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

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

##### ENVIRONMENTAL EXPOSURE CONTROLS

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

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

### SECTION 9. Physical and chemical properties

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

| Properties                     | Value          | Information |
|--------------------------------|----------------|-------------|
| Appearance                     | liquid         |             |
| Colour                         | green          |             |
| Odour                          | characteristic |             |
| Melting point / freezing point | not available  |             |



### SECTION 9. Physical and chemical properties ... / >>

|  |                |
|--|----------------|
| Initial boiling point                  | not available  |
| Flammability                           | not available  |
| Lower explosive limit                  | not available  |
| Upper explosive limit                  | not available  |
| Flash point                            | > 100 °C       |
| Auto-ignition temperature              | not available  |
| Decomposition temperature              | not available  |
| pH                                     | not available  |
| Kinematic viscosity                    | not available  |
| Dynamic viscosity                      | ~10 mPa.s      |
| Solubility                             | not available  |
| Partition coefficient: n-octanol/water | not available  |
| Vapour pressure                        | not available  |
| Density and/or relative density        | 1              |
| Relative vapour density                | not available  |
| Particle characteristics               | not applicable |

Reason for missing data: substance/mixture is non-soluble (in water)

Temperature: 25 °C

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

### SECTION 10. Stability and reactivity

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

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

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

Strong reducing and oxidizing agents.

#### 10.6. Hazardous decomposition products

By thermal decomposition, carbon monoxide, carbon dioxide and other unidentified organic compounds.

### 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 hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

**SECTION 11. Toxicological information ... / >>**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)

(2,2-DIMETHYL-1,3-DIOXOLAN-4-YL)METHYL METHACRYLATE

LD50 (Oral): > 2000 mg/kg

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

NAPHTHENIC ACID

NAPHTHENIC ACIDS, COPPER SALTS

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

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## SECTION 12. Ecological information

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

### 12.1. Toxicity

(2,2-DIMETHYL-1,3-DIOXOLAN-4-YL)METHYL METHACRYLATE

EC50 - for Crustacea > 120 mg/l/48h

EC50 - for Algae / Aquatic Plants 402 mg/l/72h

### 12.2. Persistence and degradability

COPPER (II) ACETATE

Solubility in water > 10000 mg/l

Degradability: information not available

### 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. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

### 12.7. Other adverse effects

Information not available

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

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

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

CONTAMINATED PACKAGING

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

08 04 09\* stickers and sealed sealing, containing organic solvents or other dangerous substances

## SECTION 14. Transport information

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

### 14.1. UN number or ID number

not applicable

**SECTION 14. Transport information** ... / >>**14.2. UN proper shipping name**

not applicable

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

not applicable

**14.4. Packing group**

not applicable

**14.5. Environmental hazards**

not applicable

**14.6. Special precautions for user**

not applicable

**14.7. Maritime transport in bulk according to IMO instruments**

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/EU: NoneRestrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

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%.Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 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 (AwSV, vom 18. April 2017)

WGK 3: Severe hazard to waters

**15.2. Chemical safety assessment**

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

### SECTION 16. Other information

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

|                          |  |
|--------------------------|--|
| <b>Flam. Liq. 3</b>      | Flammable liquid, category 3                                       |
| <b>Repr. 2</b>           | Reproductive toxicity, category 2                                  |
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4   |
| <b>Asp. Tox. 1</b>       | Aspiration hazard, category 1                                      |
| <b>Skin Corr. 1B</b>     | Skin corrosion, category 1B  |
| <b>Eye Dam. 1</b>        | Serious eye damage, category 1                                     |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2   |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2  |
| <b>Skin Sens. 1</b>      | Skin sensitization, category 1                                     |
| <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>H226</b>              | Flammable liquid and vapour.                                       |
| <b>H361d</b>             | Suspected of damaging the unborn child.                            |
| <b>H302</b>              | Harmful if swallowed.  |
| <b>H304</b>              | May be fatal if swallowed and enters airways.                      |
| <b>H314</b>              | Causes severe skin burns and eye damage.                           |
| <b>H318</b>              | Causes serious eye damage.   |
| <b>H319</b>              | Causes serious eye irritation.                                     |
| <b>H315</b>              | Causes skin irritation.  |
| <b>H317</b>              | May cause an allergic skin reaction.                               |
| <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.                 |

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)

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

4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII 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.