STONE+

# Safety Data Sheet

# MAR GEL PLUS

PFP49 | UFI: 9MF0-Y0TJ-U00E-3Y6X

**Faber revision 4.0 · 26/10/2021**

### English

Official English language version issued by Faber.
All 16 sections and country-specific information from the source are retained.
Stone+ provides presentation and layout only.

**Manufacturer and party responsible for the safety data sheet**


## Faber Stone & Tile · FABER CHIMICA S.R.L.

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**Distributor**

STONE+

www.stoneplus.be · www.stoneplus.eu

### Source and version control

Faber B2B · MAR GEL PLUS · SDS EN

Based on the official Faber safety data sheet in this language.

Source revision: 4.0 · 26/10/2021

**REACH · 2020/878 · CLP**

| | | |
|---|---|---|
| | **FABER CHIMICA S.R.L.**<br><br>**PFP49 - MAR GEL PLUS** | Revision n. 4.0<br>Dated 26/10/2021<br>Printed on 26/10/2021<br>Page n. 1/15<br>Replaced revision:3.0 (Dated: 30/05/2019) |

# Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878

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

**1.1. Product identifier**

| | |
|---|---|
| Code: | **PFP49** |
| Product name | **MAR GEL PLUS** |
| UFI : | **9MF0-Y0TJ-U00E-3Y6X** |

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

Intended use **RUST STAIN EXTRACTOR**

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

| | |
|---|---|
| Name | **FABER CHIMICA S.R.L.** |
| Full address | **Via Ceresani 10** |
| District and Country | **60044 Campo D'Olmo - Fabriano (ANCONA)**<br>**ITALIA** |
| | **Tel. 0732627178** |
| | **Fax 073222395** |
| e-mail address of the competent person | |
| responsible for the Safety Data Sheet | **quality@fabersurfacecare.com** |

**1.4. Emergency telephone number**

For urgent inquiries refer to

**Belgium**
**Centre Antipoisons**
**c/o Hôpital Militaire Reine Astrid, Rue Bruyn 1, 1120 Bruxelles, Belgium**
**Phone+32022649636**
**E-mail info@poisoncentre.be**
**Croatia**
**Croatian Institute of Public Health, Division for Toxicology**
**Borongajska 83g, 10000 Zagreb, Croatia**
**Phone+38514686910**
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**Danish Environmental Protection Agency**
**Haraldsgade 53, 2100 København Ø, Denmark**
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**Paldiski road 81,10617 Tallinn, Estonia**
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**Iceland**
**Poisons Information Center - Icelandic University Hospital**
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**Phone+354 543 22 22**
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**Maskavas Street 165, Riga, LV-1019, Latvia**
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**Environmental Protection Agency**
**Juozapavicius st. 9, LT-09311 Vilnius, Lithuania**
**Phone +370 70662008**
**E-mail aaa@aaa.am.lt**
**Malta**
**Malta Competition and Consumer Affairs Authority (MCCAA)**
**Mizzi House, National Road, Blata l-Bajda HMR9010, Malta**
**Phone +356 2395 2000**
**E-mail info@mccaa.org.mt**
**Norway**
**Norwegian Environment Agency**
**Postboks 5672 Torgarden, 7485 Trondheim, Norway**
**Phone+4573580500**
**E-mail produktregisteret@miljodir.no**
**Portugal**
**Centro de informação antivenenos**
**Rua Almirante Barroso, 36 1000-013 Lisboa, Portugal**
**Phone +351213303271**
**E-mail ciav.tox@inem.pt**
**Sweden**
**Swedish Poisons Information Centre**
**Giftinformationscentralen 171 76 Stockholm, Sweden**
**Phone +46104566750**
**E-mail giftinformation@gic.se**

## 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:

| | | |
|---|---|---|
| Acute toxicity, category 4 | H302 | Harmful if swallowed. |
| Skin sensitization, category 1A | H317 | May cause an allergic skin reaction. |

### 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:

| | |
|---|---|
| **H302** | Harmful if swallowed. |
| **H317** | May cause an allergic skin reaction. |

Precautionary statements:

| | |
|---|---|
| **P280** | Wear protective gloves. |
| **P261** | Avoid breathing dust / fume / gas / mist / vapours / spray. |
| **P333+P313** | If skin irritation or rash occurs: Get medical advice / attention. |
| **P264** | Wash hands and face thoroughly after handling. |
| **P362+P364** | Take off contaminated clothing and wash it before reuse. |

| | |
|---|---|
| **Contains:** | SODIUM THIOGLYCOLATE<br>reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3: 1) |

**2.3. Other hazards**

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

The product does not contain substances with endocrine disrupting properties in concentration >= 0.1%.

## SECTION 3. Composition/information on ingredients

**3.2. Mixtures**

Contains:

| **Identification** | **x = Conc. %** | **Classification 1272/2008 (CLP)** |
|---|---|---|
| **SODIUM THIOGLYCOLATE** | | |
| CAS 367-51-1 | 5 ≤ x < 6 | Met. Corr. 1 H290, Acute Tox. 3 H301, Acute Tox. 4 H312, Skin Sens. 1 H317 |
| EC 206-696-4 | | LD50 Oral: 50 mg/kg bw, LD50 Dermal: 2000 mg/kg bw |
| INDEX - | | |
| REACH Reg. 01-2119968564-24 | | |
| **ETHANEDIOL** | | |
| CAS 107-21-1 | 0 ≤ x < 0,05 | Acute Tox. 4 H302, STOT RE 2 H373 |
| EC 203-473-3 | | STA Oral: 500 mg/kg |
| INDEX 603-027-00-1 | | |
| **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3: 1)** | | |
| CAS 55965-84-9 | 0,0015 ≤ x < 0,0025 | Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=100, EUH071 |
| EC - | | Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1A H317: ≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06% |
| INDEX 613-167-00-5 | | STA Oral: 100 mg/kg, STA Dermal: 50,001 mg/kg, STA Inhalation vapours: 0,501 mg/l |
| REACH Reg. 01-2120764691-48 | | |

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.
INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.
INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

**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
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 CAUSED BY EXPOSURE IN THE EVENT OF FIRE
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. 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**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. 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 ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. 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 | Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56 |
| ESP | España | Límites de exposición profesional para agentes químicos en España 2021 |
| FRA | France | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS |
| ITA | Italia | Decreto Legislativo 9 Aprile 2008, n.81 |
| NLD | Nederland | Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| EU | OEL EU | Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. |
| | TLV-ACGIH | ACGIH 2020 |

**ETHANEDIOL**
**Threshold Limit Value**

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|---|---|---|---|---|---|---|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| AGW | DEU | 26 | 10 | 52 | 20 | SKIN |
| MAK | DEU | 26 | 10 | 52 | 20 | SKIN |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| VLA | ESP | 52 | 20 | 104 | 40 | SKIN | |
| VLEP | FRA | 52 | 20 | 104 | 40 | SKIN | |
| VLEP | ITA | 52 | 20 | 104 | 40 | SKIN | |
| TGG | NLD | 52 | | 104 | | SKIN | damp |
| WEL | GBR | 52 | 20 | 104 | 40 | SKIN | |
| OEL | EU | 52 | 20 | 104 | 40 | SKIN | |
| TLV-ACGIH | | | 25 | | 50 | | |
| TLV-ACGIH | | | | 10 | | INHAL | |

**reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3: 1)**

| Predicted no-effect concentration - PNEC | | |
|---|---|---|
| Normal value in fresh water | 339 | µg/L |
| Normal value in marine water | 339 | µg/L |
| Normal value for fresh water sediment | 27 | mg/kg/d |
| Normal value for marine water sediment | 27 | mg/kg/d |
| Normal value of STP microorganisms | 23 | mg/l |
| Normal value for the terrestrial compartment | 1 | mg/kg/d |

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

| | Effects on consumers | | | | Effects on workers | | | |
|---|---|---|---|---|---|---|---|---|
| Route of exposure | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Inhalation | | | 0.02 mg/m3 | | | | 0.02 mg/m3 | |

**SODIUM THIOGLYCOLATE**

| Predicted no-effect concentration - PNEC | | |
|---|---|---|
| Normal value in fresh water | 38 | µg/L |
| Normal value in marine water | 3,8 | µg/L |
| Normal value for water, intermittent release | 380 | µg/L |
| Normal value of STP microorganisms | 3,2 | mg/l |

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

| | Effects on consumers | | | | Effects on workers | | | |
|---|---|---|---|---|---|---|---|---|
| Route of exposure | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Inhalation | | | | | | | | 1,41 mg/m3 |
| Skin | | | | 900 µg/kg bw/day | | | 4 µg/cm2 | 2,06 mg/kg bw/d |

Legend:

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

**8.2. Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
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 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).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

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.

## SECTION 9. Physical and chemical properties

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

| Properties | Value | Information |
|---|---|---|
| Appearance | gelatinous liquid | |
| Colour | pink | |
| Odour | pungent of sulfur | |
| Melting point / freezing point | < 0 °C | |
| Initial boiling point | > 100 °C | |
| Flammability | not flammable | |
| Lower explosive limit | Not available | |
| Upper explosive limit | Not available | |
| Flash point | Not available | |
| Auto-ignition temperature | Not available | |
| Decomposition temperature | Not available | |
| pH | 9 | Concentration: 5 % |
| Kinematic viscosity | Not available | |
| Solubility | Soluble in water, but immiscible in oil | |

| | |
|---|---|
| Partition coefficient: n-octanol/water | Not applicable |
| Vapour pressure | 2338,54 Pa |
| Relative vapour density | Not available |
| Particle characteristics | Not applicable |

**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.

ETHANEDIOL

In the air absorbs moisture.Decomposes at temperatures above 200°C/392°F.

**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.

ETHANEDIOL

Risk of explosion on contact with: perchloric acid.May react dangerously with: chlorosulphuric acid,sodium hydroxide,sulphuric acid,phosphorus pentasulphide,chromium (III) oxide,chromyl chloride,potassium perchlorate,potassium dichromate,sodium peroxide,aluminium.Forms explosive mixtures with: air.

**10.4. Conditions to avoid**

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

ETHANEDIOL

Avoid exposure to: sources of heat,naked flames.

**10.5. Incompatible materials**

Information not available

**10.6. Hazardous decomposition products**

ETHANEDIOL

May develop: hydroxyacetaldehyde,glyoxal,acetaldehyde,methane,carbon monoxide,hydrogen.

## 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

Information on likely routes of exposure

ETHANEDIOL
WORKERS: inhalation; contact with the skin.
POPULATION: inhalation of ambient air; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

ETHANEDIOL
Ingestion initially stimulates the central nervous system; later replaced by a phase of depression. There may be kidney damage, with anuria and uremia. Over-exposure symptoms are: vomiting, drowsiness, difficulty in breathing, convulsions. The lethal dose for humans is approx. 1.4 ml/kg.

Interactive effects

Information not available

ACUTE TOXICITY

| | |
|---|---|
| ATE (Inhalation) of the mixture: | Not classified (no significant component) |
| ATE (Oral) of the mixture: | 1666,67 mg/kg |
| ATE (Dermal) of the mixture: | >2000 mg/kg |

ETHANEDIOL

| | |
|---|---|
| LD50 (Oral): | > 2000 mg/kg Rat |
| STA (Oral): | 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) |
| LD50 (Dermal): | 9530 mg/kg Rabbit |

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3: 1)

| | |
|---|---|
| LD50 (Oral): | 457 mg/kg bw |
| STA (Oral): | 100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) |
| LD50 (Dermal): | 600 mg/kg bw |

| | |
|---|---|
| STA (Dermal): | 50,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) |
| LC50 (Inhalation vapours): | 123 mg/m³ |
| STA (Inhalation vapours): | 0,501 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) |

SODIUM THIOGLYCOLATE

| | |
|---|---|
| LD50 (Oral): | 50 mg/kg bw |
| LD50 (Dermal): | 2000 mg/kg bw rat |

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

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

ETHANEDIOL
Available studies have shown no carcinogenic potential. In a carcinogenicity study lasting two years, carried out by the US National Toxicology Program (NTP), in which ethylene glycol was administered in the feed, "no evidence of carcinogenic activity" in male and female B6C3F1 mice was observed (NTP, 1993).

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

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

**12.1. Toxicity**

| | |
|---|---|
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3: 1) | |
| LC50 - for Fish | 58 mg/l/96h Danio rerio |
| EC50 - for Crustacea | 7 mg a.i./L |
| EC50 - for Algae / Aquatic Plants | 52 µg a.i./L |
| EC10 for Algae / Aquatic Plants | 188 mg/l/72h Pseudokirchneriella subcapitata |
| Chronic NOEC for Algae / Aquatic Plants | 49 µg a.i./L |
| | |
| SODIUM THIOGLYCOLATE | |
| LC50 - for Fish | 100 mg/l/96h |
| EC50 - for Algae / Aquatic Plants | 100 mg/l/72h |
| Chronic NOEC for Fish | 100 mg/l |
| Chronic NOEC for Crustacea | 100 mg/l |
| Chronic NOEC for Algae / Aquatic Plants | 100 mg/l |

**12.2. Persistence and degradability**

| | |
|---|---|
| ETHANEDIOL | |
| Solubility in water | 1000 - 10000 mg/l |
| Rapidly degradable | |
| | |
| SODIUM THIOGLYCOLATE | |
| Solubility in water | 609,1 g/l 20°C and pH 7 |
| Rapidly degradable | |

**12.3. Bioaccumulative potential**

| | |
|---|---|
| ETHANEDIOL | |
| Partition coefficient: n-octanol/water | -1,36 |

**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 ≥ 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.

## 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

**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/EC: None

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

Product

| | | |
|---|---|---|
| Point | 3 | |

Contained substance

| | | |
|---|---|---|
| Point | 75 | |
| Point | 72 | FORMALDEHYDE<br>REACH Reg.: 01-2119488953-20 |

Regulation (EC) No. 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 ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

**15.2. Chemical safety assessment**

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

## SECTION 16. Other information

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

| | |
|---|---|
| **Met. Corr. 1** | Substance or mixture corrosive to metals, category 1 |
| **Acute Tox. 2** | Acute toxicity, category 2 |

| | |
|---|---|
| **Acute Tox. 3** | Acute toxicity, category 3 |
| **Acute Tox. 4** | Acute toxicity, category 4 |
| **STOT RE 2** | Specific target organ toxicity - repeated exposure, category 2 |
| **Skin Corr. 1C** | Skin corrosion, category 1C |
| **Skin Sens. 1** | Skin sensitization, category 1 |
| **Skin Sens. 1A** | Skin sensitization, category 1A |
| **Aquatic Acute 1** | Hazardous to the aquatic environment, acute toxicity, category 1 |
| **Aquatic Chronic 1** | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| **H290** | May be corrosive to metals. |
| **H310** | Fatal in contact with skin. |
| **H330** | Fatal if inhaled. |
| **H301** | Toxic if swallowed. |
| **H302** | Harmful if swallowed. |
| **H312** | Harmful in contact with skin. |
| **H373** | May cause damage to organs through prolonged or repeated exposure. |
| **H314** | Causes severe skin burns and eye damage. |
| **H317** | May cause an allergic skin reaction. |
| **H400** | Very toxic to aquatic life. |
| **H410** | Very toxic to aquatic life with long lasting effects. |
| **EUH071** | Corrosive to the respiratory tract. |

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- 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: 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)
4. Regulation (EU) 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)
- 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.

Changes to previous review:
MSDS update for software use