# Safety Data Sheet

In accordance with Annex II of REACH - Regulation (EU) 2020/878

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

**1.1. Product identifier**

| | |
|---|---|
| Code: | **0030180** |
| Name | **POWER DET** |
| Chemical name and synonyms | **POWER DET** |

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

| | |
|---|---|
| Sector of use | **SU22 – Professional uses SU21 – Consumer uses** |
| Product Category | **PC35 – Washing and cleaning products (including solvent-based products)** |
| Description/Use | **Acid descaling and degreasing cleaner for ceramic materials** |

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

| | |
|---|---|
| Company Name | **MARBEC SRL** |
| Address | **VIA CROCE ROSSA 5/i** |
| Location and State | **51037 MONTALE (PISTOIA)**<br>**ITALY** |
| | **tel. +039 0573/959848** |
| e-mail of the competent person, responsible for the safety data sheet | **info@marbec.it** |

**1.4. Emergency telephone number**

For urgent information please contact
**MARBEC srl**
**0573959848 8.30am-1pm 2pm-6pm or +393348578502**
**Telephone number of Poison Control Centers active 24/7**
**National Poisons Information Service (Birmingham Unit) +44 844 892 0111**

## SECTION 2. Hazards identification

**2.1. Classification of the substance or mixture**

The product is classified as dangerous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments).
The product therefore requires a safety data sheet compliant with the provisions of Regulation (EU) 2020/878.
Any additional information regarding health and/or environmental risks is given in sections 11 and 12 of this sheet.

Classification and hazard statements:

| | | |
|---|---|---|
| Skin corrosion, category 1 | H314 | Causes severe skin burns and serious eye damage. |
| Serious eye damage, category 1 | H318 | Causes serious eye damage. |

**2.2. Label elements**

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

Hazard pictograms:

Warnings: Danger

Hazard statements:

**H314** Causes severe skin burns and serious eye damage.

Precautionary statement:

**P260** Do not breathe dust / fume / gas / mist / vapours / spray.

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

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

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

**P301+P330+P331** IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

**Contains:** Alcohols, C11-13-branched, ethoxylated (>2.5 mol EO)

**Ingredients compliant with Regulation (EC) No. 648/2004**

Aliphatic hydrocarbons <1%, non-ionic surfactants 5%<C<15%, anionic surfactants <5%

**2.3. Other dangers**

Based on available data, the product does not contain PBT or vPvB substances in percentage ≥ 0.1%.

The product does not contain substances with endocrine-disrupting properties in concentrations ≥ 0.1%.

## SECTION 3. Composition/information on ingredients

**3.2. Mixtures**

Contains:

| Identification | x = Conc. % | Classification 1272/2008 (CLP) |
|---|---|---|

| | | |
|---|---|---|
| **DIPROPYLENE GLYCOL MONOMETHYL ETHER** | | |
| INDEX - | 9 ≤ x < 30 | Substance with a Community workplace exposure limit. |
| EC 252-104-2 | | |
| CAS 34590-94-8 | | |
| REACH Reg. 01-2119450011-60-xxxx | | |
| **Dimethyl-2-methyl glutarate** | | |
| INDEX | 3 ≤ x < 9 | |
| THERE IS - | | |
| CAS 14035-94-0 | | |
| REACH Reg. 01-0000017895-56 | | |
| **1-METHOXY-2-METHOXYETHYL ACETATE** | | |
| INDEX 607-195-00-7 | 3 ≤ x < 9 | Flam. Liq. 3 H226 |
| EC 203-603-9 | | |
| CAS 108-65-6 | | |
| REACH Reg. 01-2119475791-29-xxxx | | |
| **SULPHAMIC ACID** | | |
| INDEX 016-026-00-0 | 3 ≤ x < 9 | Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 3 H412 |
| EC 226-218-8 | | |
| CAS 5329-14-6 | | |
| REACH Reg. 01-2119488633-28-xxxx | | |
| **Alcohols, C11-13-branched, ethoxylated (>2.5 mol EO)** | | |
| INDEX | 3 ≤ x < 9 | Acute Tox. 4 H302, Eye Dam. 1 H318 |
| THERE IS - | | LD50 Oral: >300 mg/kg |
| CAS 68439-54-3 | | |
| **SULFONIC ACIDS, C14-17-SEC-ALKANES, SODIUM SALTS** | | |
| INDEX - | 1 ≤ x < 3 | Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412 |
| EC 307-055-2 | | LD50 Oral: >1000 mg/kg |
| CAS 97489-15-1 | | |
| REACH Reg. 01-2119489924-20 | | |
| **Alcohols, branched C12-15 and linear, ethoxylated propoxylated** | | |
| INDEX | 1 ≤ x < 3 | Eye Irrit. 2 H319, Skin Irrit. 2 H315 |
| THERE IS - | | |
| CAS 120313-48-6 | | |
| REACH Reg. (REF.:N° 02-2119548508-30-0000 | | |

The full text of the hazard statements (H) is given in section 16 of the sheet.

## SECTION 4. First aid measures

**4.1. Description of first aid measures**

If in doubt or if you experience symptoms, contact a doctor and show this document.

EYES: Remove contact lenses, if present, if the situation allows this to be done easily. Wash immediately with plenty of water for at least 15 minutes, holding the eyelids wide open. Consult a doctor immediately.

SKIN: Remove immediately all contaminated clothing. Wash immediately with plenty of running water (and soap if possible). Seek medical attention immediately. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless specifically authorized by your doctor. Rinse the mouth with running water. Do not administer anything by mouth if the person is unconscious. Seek medical attention immediately.

INHALATION: Remove the victim to fresh air, away from the accident site. If respiratory symptoms occur (cough, dyspnea, difficulty breathing, asthma) keep the victim in a comfortable position for breathing. If necessary, administer oxygen. If breathing stops, perform artificial respiration. Seek medical attention immediately.

Protection of rescuers

It is good practice for the rescuer who provides assistance to a subject who has been exposed to a chemical substance or mixture to wear personal protective equipment. The nature of such protection depends on the dangerousness of the substance or mixture, the method of exposure and the extent of contamination. In the absence of other more specific indications, it is recommended to use disposable gloves in case of possible contact with biological fluids. For the type of PPE suitable for the characteristics of the substance or mixture, refer to section 8.

**4.2. Main symptoms and effects, both acute and delayed**

There is no specific information available on symptoms and effects caused by the product.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

**4.3. Indication of any need to immediately consult a doctor and require special treatment**

Contact a POISON CENTER / doctor immediately / . . .

Means to have available in the workplace for specific and immediate treatment

Running water for washing skin and eyes.

## SECTION 5. Fire-fighting measures

**5.1. Extinguishing media**

SUITABLE EXTINGUISHING MEANS
Choose the most appropriate extinguishing media for the specific situation.
UNSUITABLE EXTINGUISHING MEANS
No one in particular.

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

HAZARDS DUE TO EXPOSURE IN CASE OF FIRE
The product is neither flammable nor combustible.

**5.3. Recommendations for firefighters**

EQUIPMENT
Normal firefighting clothing, such as open-circuit compressed air breathing apparatus (EN 137), flame-retardant overalls (EN469), flame-retardant gloves (EN 659) and firefighter's boots (HO A29 or A30).

## SECTION 6. Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

Stop the leak if it is safe to do so.
Wear appropriate protective equipment (including personal protective equipment as per section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These instructions apply to both workers and emergency response personnel.

**6.2. Environmental precautions**

Prevent the product from entering sewers, surface water or groundwater.

**6.3. Methods and materials for containment and remediation**

Suck up the spilled product into a suitable container. Assess the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.
Provide adequate ventilation of the area affected by the spill. Disposal of contaminated material must be carried out in accordance with the provisions of point 13.

**6.4. Reference to other sections**

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

## SECTION 7. Handling and storage

**7.1. Precautions for safe handling**

Handle the product after consulting all other sections of this safety data sheet. Avoid dispersion of the product in the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering eating areas.

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

Store only in the original container. Keep containers closed, in a well-ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10.

Storage class TRGS 510 (Germany):
12

**7.3. Specific end uses**

Information not available

## SECTION 8. Exposure controls/personal protection

**8.1. Control parameters**

Regulatory references:

| | | |
|---|---|---|
| DEU | Germany | Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58 |
| ESP | Spain | Professional exposure limits for chemical agents in Spain 2023 |
| BETWEEN | France | Value limits for professional exposure to chemical agents in France Decree n° 2021-1849 of 28 December 2021 |
| ITA | Italy | Legislative Decree 9 April 2008, n.81 |

| | | |
|---|---|---|
| PRT | Portugal | Legislative Decree n. 1/2021 of 6 January, indicative professional exposure limit values for chemical agents. Legislative Decree no. 35/2020 of 13 July, protection of workers against risks linked to exposure during work with cancerous or mutagenic agents |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| EU | OEL EU | Directive (EU) 2022/431; 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 2023 |

## DIPROPYLENE GLYCOL MONOMETHYL ETHER

**Threshold limit value**

| Type | State | TWA/8h | | STEL/15min | | Notes / Observations |
|---|---|---|---|---|---|---|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| AGW | DEU | 310 | 50 | 310 | 50 | 11 |
| MAKE | DEU | 310 | 50 | 310 | 50 | |
| VLA | ESP | 308 | 50 | | | SKIN |
| VLEP | BETWEEN | 308 | 50 | | | SKIN |
| VLEP | ITA | 308 | 50 | | | SKIN |
| VLE | PRT | 308 | 50 | | | SKIN |
| WELL | GBR | 308 | 50 | | | SKIN |
| OEL | EU | 308 | 50 | | | SKIN |
| TLV-ACGIH | | | 50 | | | |

## SULPHAMIC ACID

| Predicted no-effect concentration - PNEC | | |
|---|---|---|
| Reference value in fresh water | 0.048 | mg/l |
| Reference value in sea water | 0.0048 | mg/l |
| Reference value for sediments in fresh water | 0.173 | mg/kg/day |
| Reference value for sediments in seawater | 0.0173 | mg/kg/day |
| Reference value for the terrestrial compartment | 0.00638 | mg/kg/day |

**Health - Derived No-Effect Level - DNEL / DMEL**

| | Effects on consumers | | | | Effects on workers | | | |
|---|---|---|---|---|---|---|---|---|
| Exposure Way | Sharp locals | Acute systemic | Chronic premises | Chronic systemic | Sharp locals | Acute systemic | Chronic premises | Chronic systemic |
| Oral | | | | 1.06 mg/kg bw/d | | | | |
| Dermal | | | | 5 mg/kg bw/d | | | | 10 mg/kg bw/d |

## 1-METHOXY-2-METHOXYETHYL ACETATE

**Threshold limit value**

| Type | State | TWA/8h | | STEL/15min | | Notes / Observations |
|---|---|---|---|---|---|---|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| AGW | DEU | 270 | 50 | 270 | 50 | |
| MAKE | DEU | 270 | 50 | 270 | 50 | |
| VLA | ESP | 275 | 50 | 550 | 100 | SKIN |
| VLEP | BETWEEN | 275 | 50 | 550 | 100 | SKIN |
| VLEP | ITA | 275 | 50 | 550 | 100 | SKIN |
| VLE | PRT | 275 | 50 | 550 | 100 | SKIN |
| WELL | GBR | 274 | 50 | 548 | 100 | SKIN |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| OEL | EU | 275 | 50 | 550 | 100 | SKIN | |

| Predicted no-effect concentration - PNEC | | |
|---|---|---|
| Reference value in fresh water | 0.635 | mg/l |
| Reference value in sea water | 0.0635 | mg/l |
| Reference value for sediments in fresh water | 3.29 | mg/kg |
| Reference value for sediments in seawater | 0.329 | mg/kg |
| Reference value for water, intermittent release | 6.35 | mg/l |
| Reference value for STP microorganisms | 100 | mg/l |
| Reference value for the terrestrial compartment | 0.29 | mg/kg |

**Health - Derived No-Effect Level - DNEL / DMEL**

| | Effects on consumers | | | | Effects on workers | | | |
|---|---|---|---|---|---|---|---|---|
| Exposure Way | Sharp locals | Acute systemic | Chronic premises | Chronic systemic | Sharp locals | Acute systemic | Chronic premises | Chronic systemic |
| Oral | | | | 1.67 mg/kg/d | | | | |
| Inhalation | | | | 33 mg/m3 | | | | 275 mg/m3 |
| Dermal | | | | 54.8 mg/kg/d | | | | 153.5 mg/kg/d |

**SULFONIC ACIDS, C14-17-SEC-ALKANES, SODIUM SALTS**

| Predicted no-effect concentration - PNEC | | |
|---|---|---|
| Reference value in fresh water | 0.04 | mg/l |
| Reference value in sea water | 0.004 | mg/l |
| Reference value for sediments in seawater | 0.94 | mg/kg |
| Reference value for water, intermittent release | 0.06 | mg/l |
| Reference value for STP microorganisms | 600 | mg/l |
| Reference value for the terrestrial compartment | 9.4 | mg/kg |

**Health - Derived No-Effect Level - DNEL / DMEL**

| | Effects on consumers | | | | Effects on workers | | | |
|---|---|---|---|---|---|---|---|---|
| Exposure Way | Sharp locals | Acute systemic | Chronic premises | Chronic systemic | Sharp locals | Acute systemic | Chronic premises | Chronic systemic |
| Oral | | | VND | 7.1 mg/kg bw/d | | | | |
| Inhalation | | | VND | 12.34 mg/m3 | | | VND | 35 mg/m3 |
| Dermal | 2.8 mg/cm2 | VND | 2.8 mg/cm2 | 3.57 mg/kg bw/d | 2.8 mg/cm2 | VND | 2.8 mg/cm2 | 5 mg/kg bw/d |

Legend:

(C) = CEILING ; INALAB = Inhalable Fraction ; RESPIR = Respirable Fraction ; TORAC = 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**

Considering that the use of appropriate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local extraction.
When choosing personal protective equipment, seek advice from your chemical suppliers.
Personal protective equipment must bear the CE marking which certifies their compliance with current regulations.

Provide emergency shower with eye basin.

HAND PROTECTION
Protect hands with category III work gloves.
For the final choice of work glove material (ref. EN 374 standard) the following must be considered: compatibility, degradation, permeation time.
In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not predictable. Gloves have a wear time that depends on the duration and method of use.

SKIN PROTECTION
Wear long-sleeved work clothes and category III professional safety footwear (ref. Regulation 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION
It is recommended to wear a hood visor or protective visor combined with airtight glasses (ref. standard EN ISO 16321).

RESPIRATORY PROTECTION
Not required for normal use. If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is recommended to wear a mask with a type A filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387). If gases or vapours of a different nature and/or gases or vapours with particles (aerosols, fumes, mists, etc.) are present, combined type filters must be provided.
The use of respiratory protection devices is necessary if the technical measures adopted are not sufficient to limit the worker's exposure to the threshold values taken into consideration. The protection offered by masks is however limited.
In case the substance in question is odorless or its olfactory threshold is higher than the relevant TLV-TWA and in case of emergency, wear an open-circuit compressed air breathing apparatus (ref. standard EN 137) or an external air-supplied respirator (ref. standard EN 138). For the correct choice of respiratory protection device, refer to standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS
Emissions from manufacturing processes, including those from ventilation equipment, should be monitored to comply with environmental protection legislation.

## SECTION 9. Physical and chemical properties

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

| Property | Value | Information |
|---|---|---|
| Physical State | liquid | |
| Color | Colorless to amber | |
| Odor | characteristic | |
| Melting or freezing point | not applicable | |
| Initial boiling point | not applicable | |
| Boiling range | not applicable | |
| Flammability | incombustible | |
| Lower explosive limit | not applicable | |
| Upper explosive limit | not applicable | |
| Flash point | > 60 °C | |
| Auto-ignition temperature | not applicable | |
| Decomposition temperature | not available | |
| pH | 1-2 | |
| Kinematic viscosity | not available | |
| Solubility | partially soluble in water | |

| | |
|---|---|
| Partition coefficient: n-octanol/water | not available |
| Vapor pressure | not available |
| Density and/or Relative Density | 1.05 kg/l |
| Relative vapor density | not available |
| Particle Characteristics | not applicable |

**9.2. Other information**

9.2.1. Information relating to physical hazard classes

Information not available

9.2.2. Other security features

| | | |
|---|---|---|
| VOC (Directive 2010/75/EU) | 28.57% - 300.00 | g/liter |
| Explosive properties | non-explosive | |
| Oxidizing properties | non-oxidizing | |

## SECTION 10. Stability and reactivity

**10.1. Reactivity**

There are no particular dangers of reaction with other substances under normal conditions of use.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

Under normal conditions of use and storage, no hazardous reactions are expected.

**10.4. Conditions to avoid**

None in particular. However, take the usual precautions when handling chemicals.

**10.5. Incompatible materials**

SULPHAMIC ACID

Incompatible with: chlorine, nitric acid, nitrates, sodium nitrite, potassium nitrite.

1-METHOXY-2-METHOXYETHYL ACETATE

Incompatible with: oxidizing substances, strong acids, alkali metals.

**10.6. Hazardous decomposition products**

SULPHAMIC ACID

May produce: sulphur oxides, nitrogen oxides.

## SECTION 11. Toxicological information

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Metabolism, kinetics, mechanism of action and other information

1-METHOXY-2-METHOXYETHYL ACETATE
The main route of entry is the skin, while the respiratory route is less important, given the low vapour pressure of the product.

Information on likely routes of exposure

1-METHOXY-2-METHOXYETHYL ACETATE
WORKERS: inhalation; skin contact.

Immediate, delayed and chronic effects resulting from short and long-term exposure

1-METHOXY-2-METHOXYETHYL ACETATE
Above 100 ppm, irritation of the ocular, nasal and oropharyngeal mucosa occurs. At 1000 ppm, disturbances in balance and severe irritation to the eyes are noted. Clinical and biological tests performed on exposed volunteers have not revealed anomalies. Acetate produces greater skin and eye irritation by direct contact. No chronic effects on humans are reported (INCR, 2010).

Interactive effects

Information not available

ACUTE TOXICITY

| | |
|---|---|
| ATE (Inhalation) of the mixture: | Not classified (no relevant components) |
| ATE (Oral) of the mixture: | >2000 mg/kg |
| ATE (Cutaneous) of the mixture: | Not classified (no relevant components) |

Dimethyl-2-methyl glutarate

| | |
|---|---|
| LD50 (Dermal): | > 2000 mg/kg rat |
| LC50 (Inhalation of vapours): | > 5.6 mg/l/4h rat |

SULPHAMIC ACID

| | |
|---|---|
| LD50 (Dermal): | > 2000 mg/kg rat |
| LD50 (Oral): | 3160 mg/kg Rat |

1-METHOXY-2-METHOXYETHYL ACETATE

| | |
|---|---|
| LD50 (Dermal): | > 5000 mg/kg Rat |
| LD50 (Oral): | 8530 mg/kg Rat |

Ethoxylated aliphatic alcohol 7 moles

| | |
|---|---|
| LD50 (Dermal): | > 2000 mg/kg rabbit |
| LD50 (Oral): | > 300 mg/kg rat |

SULFONIC ACIDS, C14-17-SEC-ALKANES, SODIUM SALTS

| | |
|---|---|
| LD50 (Dermal): | 2000 mg/kg mouse |
| LD50 (Oral): | > 1000 mg/kg rat |

Alcohols, branched C12-15 and linear, ethoxylated propoxylated

| | |
|---|---|
| LD50 (Oral): | > 2000 mg/kg rat |

SKIN CORROSION / SKIN IRRITATION

Corrosive to the skin

Classification based on the experimental value of the pH

SERIOUS EYE DAMAGE / EYE IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITIZATION

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

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

DANGER IN CASE OF ASPIRATION

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

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

## SECTION 12. Ecological information

Use according to good working practices, avoiding dispersal of the product into the environment. Notify the competent authorities if the product has reached water courses or if it has contaminated the soil or vegetation.

**12.1. Toxicity**

1-METHOXY-2-METHOXYETHYL ACETATE
Aquatic toxicity assessment: The product is unlikely to be harmful to aquatic organisms. Correct introduction of low concentrations into a biological purification plant should not compromise the degradation activity of activated sludge. Acute aquatic toxicity: Based on acute aquatic toxicity values; Not classified. Chronic aquatic toxicity: Not classified, based on ready biodegradability and low acute toxicity.

SULPHAMIC ACID

| | |
|---|---|
| LC50 - Fish | 703 mg/l/96h Pimephales promelas |
| EC50 - Crustaceans | 71.6 mg/l/48h daphnia magna |

1-METHOXY-2-METHOXYETHYL ACETATE

| | |
|---|---|
| LC50 - Fish | 134 mg/l/96h oncorhynchus mykiss |
| EC50 - Crustaceans | > 500 mg/l/48h daphnia magna |
| EC50 - Algae / Aquatic Plants | > 1000 mg/l/72h selenastrum capricornutum |
| NOEC Chronic Fish | 47.5 mg/l oryzias latipes |
| NOEC Chronic Crustaceans | > 100 mg/l daphnia magna |

Ethoxylated aliphatic alcohol 7 moles

| | |
|---|---|
| LC50 - Fish | 5 mg/l/96h |
| EC50 - Crustaceans | 5 mg/l/48h |
| EC50 - Algae / Aquatic Plants | 5 mg/l/72h |
| Chronic NOEC Algae / Aquatic Plants | 10 mg/kg OECD Method 208 |

Dimethyl-2-methyl glutarate

| | |
|---|---|
| LC50 - Fish | 56 mg/l/96h Oncorhynchus mykiss |
| EC50 - Crustaceans | > 100 mg/l/48h Daphnia magna |
| EC50 - Algae / Aquatic Plants | > 60 mg/l/72h Pseudokirchneriella subcapitata |

Alcohols, branched C12-15 and linear, ethoxylated propoxylated

| | |
|---|---|
| LC50 - Fish | 5 mg/l/96h |

SULFONIC ACIDS, C14-17-SEC-ALKANES, SODIUM SALTS

| | |
|---|---|
| LC50 - Fish | 5 mg/l/96h Brachydanio rerio |
| EC50 - Crustaceans | 9.81 mg/l/48h Daphnia magna |
| NOEC Chronic Fish | 0.85 mg/l Oncorhynchus mykiss |
| NOEC Chronic Crustaceans | > 61 mg/l Scenedesmus subspicatus |

**12.2. Persistence and degradability**

SULPHAMIC ACID

| | |
|---|---|
| Solubility in water | > 10000 mg/l |

Degradability: data not available

DIPROPYLENE GLYCOL MONOMETHYL ETHER

| | |
|---|---|
| Solubility in water | 1000 - 10000 mg/l |

Rapidly degradable

1-METHOXY-2-METHOXYETHYL ACETATE

| | |
|---|---|
| Solubility in water | > 10000 mg/l |

Rapidly degradable

Ethoxylated aliphatic alcohol 7 moles

Rapidly degradable

Dimethyl-2-methyl glutarate

Rapidly degradable

Alcohols, branched C12-15 and linear, ethoxylated propoxylated

Rapidly degradable

SULFONIC ACIDS, C14-17-SEC-ALKANES, SODIUM SALTS

Rapidly degradable

**12.3. Bioaccumulative potential**

DIPROPYLENE GLYCOL MONOMETHYL ETHER

| | |
|---|---|
| Partition coefficient: n-octanol/water | 0.0043 |

1-METHOXY-2-METHOXYETHYL ACETATE

| | |
|---|---|
| Partition coefficient: n-octanol/water | 1,2 |

**12.4. Mobility in soil**

Information not available

**12.5. Results of PBT and vPvB assessment**

Based on available data, the product does not contain PBT or vPvB substances in percentage ≥ 0.1%.

**12.6. Endocrine disrupting properties**

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

**12.7. Other adverse effects**

Information not available

## SECTION 13. Disposal Considerations

**13.1. Waste treatment methods**

Reuse, if possible. Product residues are to be considered hazardous special waste. The hazardousness of wastes containing part of this product must be assessed according to the current legislative provisions.
Disposal must be entrusted to a company authorised to manage waste, in compliance with national and, where applicable, local legislation.

CONTAMINATED PACKAGING
Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

## SECTION 14. Transport information

The product is not to be considered dangerous according to the current provisions regarding the transport of dangerous goods by road (ADR), by rail (RID), by sea (IMDG Code) and by air (IATA).

**14.1. UN number or ID number**

not applicable

**14.2. UN official shipping name**

not applicable

**14.3. Transport hazard classes**

not applicable

**14.4. Packing group**

not applicable

**14.5. Environmental hazards**

not applicable

**14.6. Special precautions for users**

not applicable

**14.7. Bulk maritime transport in accordance with IMO acts**

Irrelevant information

## SECTION 15. Regulatory Information

**15.1. Legislative and regulatory provisions on health, safety and environment specific for the substance or mixture**

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or the substances contained in accordance with Annex XVII of Regulation (EC) 1907/2006

Product

Point 3 - 40

Substances contained

Point 75

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

not applicable

Substances in Candidate List (Art. 59 REACH)

Based on available data, the product does not contain SVHC substances in percentage ≥ 0.1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to export notification requirement Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Health Checks

Workers exposed to this chemical agent which is hazardous to health must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

### 15.2. Chemical safety assessment

A chemical safety assessment has been developed for the following substances in the mixture:
Sulfamic acid, 1-methyl-2-methoxyethyl acetate, Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics,, Sulfonic acids, C14-17-sec-alkanes, Sodium salts.

## SECTION 16. Other information

Text of the hazard statements (H) cited in sections 2-3 of the sheet:

| | |
|---|---|
| **Flam. Liq. 3** | Flammable liquid, category 3 |
| **Acute Tox. 4** | Acute toxicity, category 4 |
| **Skin Corr. 1** | Skin corrosion, category 1 |

| | |
|---|---|
| **Eye Dam. 1** | Serious eye damage, category 1 |
| **Eye Irrit. 2** | Eye irritation, category 2 |
| **Skin Irrit. 2** | Skin irritation, category 2 |
| **Aquatic Chronic 3** | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| **H226** | Flammable liquid and vapour. |
| **H302** | Harmful if swallowed. |
| **H314** | Causes severe skin burns and serious eye damage. |
| **H318** | Causes serious eye damage. |
| **H319** | Causes serious eye irritation. |
| **H315** | Causes skin irritation. |
| **H412** | Harmful to aquatic life with long lasting effects. |

LEGEND:
- ADR: European Agreement concerning the carriage of dangerous goods by road
- ATE / STA: Acute Toxicity Estimation
- CAS: Chemical Abstract Service Number
- CE: Identification number in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Concentration that produces an effect in 50% of the test population
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulations
- IC50: Immobilization concentration of 50% of the test population
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organization
- INDEX: Identification number in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted No Effect Concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulations for the international carriage 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 compound
- vPvB: Very Persistent and Very Bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard class (Germany).

GENERAL BIBLIOGRAPHY:
1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament and of the Council (CLP)
3. Regulation (EU) 2020/878 (Annex II REACH Regulation)
4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
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 (EU) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (EU) 2023/707
24. Delegated Regulation (EU) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (EU) 2023/1435 (XX Atp. CLP)

- The Merck Index. - 10th Edition
- Chemical Safety Handling
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- NI Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS Website
- ECHA Agency Website
- Database of SDS models of chemical substances - Ministry of Health and Istituto Superiore di Sanità

Note for user:
The information contained in this sheet is based on the knowledge available to us at the date of the last version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.
This document should not be construed as a guarantee of any specific property of the product.
Since the use of the product is not under our direct control, it is the user's obligation to observe under his own responsibility the laws and provisions in force regarding hygiene and safety. We assume no responsibility for improper use.
Provide adequate training to personnel involved in the use of chemicals.
CLASSIFICATION CALCULATION METHODS
Chemical-physical hazards: The classification of the product was derived from the criteria established by the CLP Regulation Annex I Part 2. The methods for evaluating the chemical-physical properties are reported in section 9.
Health hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 3, unless otherwise indicated in section 11.
Environmental hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 4, unless otherwise indicated in section 12.

Changes from the previous revision
Changes have been made to the following sections:
02 / 11 / 15.