# 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

| | |
|---|---|
| Product name | Xtreme Epoxy 100 C.B |

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

| **Intended use** |
|---|
| Chemical anchoring - Two -component injection system - component based on hardening agents for epoxy resin |

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

| | |
|---|---|
| Company name | TORGGLER S.R.L. |
| Full address | Via Prati Nuovi 9 |
| Town | Marlengo |
| Postal code | 39020 |
| Province | BZ |
| Country | Italy |
| Phone number | +39 0473 282400 |
| Fax | +39 0473 282501 |
| e-mail address of the competent person responsible for the Safety Data Sheet | reach@torggler.com |

### 1.4 Emergency telephone number

| | |
|---|---|
| For urgent inquiries refer to | +39 348 662 70 93 (08.00 - 17.30) |

## 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 is given in sections 11 and 12 of this sheet.

| **Hazard classification** | | |
|---|---|---|
| Acute toxicity, category 4 | H302 | Harmful if swallowed. |
| Skin corrosion, category 1B | H314 | Causes severe skin burns and eye damage. |
| Skin sensitization, category 1A | H317 | May cause an allergic skin reaction. |
| Serious eye damage, category 1 | H318 | Causes serious eye damage. |
| 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**



| **Signal word** |
|---|
| Danger |

Section 2

| Hazard statements | |
|---|---|
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H412 | Harmful to aquatic life with long lasting effects. |

| Precautionary statements | |
|---|---|
| P264 | Wash exposed body parts thoroughly after handling. |
| P260 | Do not breathe dust, 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/ shower. |
| P280 | Wear protective gloves / protective clothing / eye protection / face protection. |
| P310 | Immediately call a poison center/doctor. |

| Supplementary hazard statements | |
|---|---|
| EUH071 | Corrosive to the respiratory tract. |

| Contains |
|---|
| M-PHENYLENEBIS (METHYLAMINE) |
| 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine |
| 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE |

## 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

**M-PHENYLENEBIS (METHYLAMINE)**

| | |
|---|---|
| Concentration | 22.4 ≤ x < 34 % |
| CAS number | 1477-55-0 |
| EC number | 216-032-5 |
| Registration Number | 01-2119480150-50-xxxx |
| Hazard classification | ▪ Acute Tox. 4; H302<br>▪ Skin Corr. 1B; H314<br>▪ Skin Sens. 1B; H317<br>▪ Eye Dam. 1; H318<br>▪ Acute Tox. 4; H332<br>▪ Aquatic Chronic 3; H412 |
| Additional classification | EUH071 |
| ATE (Oral) | 500 mg/kg |
| LC50 (Inhalation mists/powders): | 1.34 mg/l (4h) |

**BENZYL ALCOHOL**

| | |
|---|---|
| Concentration | 8 ≤ x < 12.4 % |
| CAS number | 100-51-6 |
| EC number | 202-859-9 |
| INDEX number | 603-057-00-5 |
| Registration Number | 01-2119492630-38-xxxx |

Section 3

| | |
|---|---|
| Hazard classification | ▪ Acute Tox. 4; H302<br>▪ Eye Irrit. 2; H319<br>▪ Acute Tox. 4; H332 |
| LD50 (Oral): | 1,620 mg/kg |
| ATE (Inhalation - mists / powders) | 1.5 mg/l |

**2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL**

| | |
|---|---|
| Concentration | 8 ≤ x < 12.4 % |
| CAS number | 90-72-2 |
| EC number | 202-013-9 |
| INDEX number | 603-069-00-0 |
| Registration Number | 01-2119560597-27-xxxx |
| Hazard classification | ▪ Acute Tox. 4; H302<br>▪ Skin Irrit. 2; H315<br>▪ Skin Sens. 1B; H317<br>▪ Eye Irrit. 2; H319 |
| ATE (Oral) | 500 mg/kg |

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

| | |
|---|---|
| Concentration | 8 ≤ x < 12.4 % |
| CAS number | 38294-64-3 |
| EC number | 500-101-4 |
| Hazard classification | ▪ Skin Corr. 1B; H314<br>▪ Skin Sens. 1; H317<br>▪ Eye Dam. 1; H318<br>▪ Aquatic Chronic 3; H412 |

**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

| | |
|---|---|
| Concentration | 2.61 ≤ x < 4 % |
| CAS number | 2855-13-2 |
| EC number | 220-666-8 |
| INDEX number | 612-067-00-9 |
| Hazard classification | ▪ Acute Tox. 4; H302<br>▪ Skin Corr. 1B; H314<br>▪ Skin Sens. 1A; H317<br>▪ Eye Dam. 1; H318<br>▪ Acute Tox. 4; H332 |
| Specific concentration limits | ▪ Skin Sens. 1A; H317: ≥ 0.001 % |
| LD50 (Oral): | 1,030 mg/kg |
| ATE (Inhalation - mists / powders) | 1.5 mg/l |

The full wording of hazard (H) phrases is given in section 16 of the sheet.

Quartz (SiO2)-CAS 14808-60-7-C%:> = 50- <80:
The quartz contained in the product is classified as non -dangerous. Furthermore, being linked to the other liquid/pasty components of the mixture, it is not freely available during use. The final product has a pasty consistency and the exposure limits to the inhalation powders are not relevant.

# Section 4 First aid measures

## 4.1 Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.
In case of more severe symptoms, ask for immediate medical aid.
EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Rinse your mouth with running water. Do not give anything by mouth to an unconscious person. Get medical advice/attention.
INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

**Rescuers protection**

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.
DELAYED EFFECTS: Poisoning symptoms can appear even hours after exposure: it is therefore appropriate to keep the injured person under observation in the hours following the accident.

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

Immediately call a poison center/doctor.

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

Running water for skin and eye wash.

## 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

If there are no contraindications, spray powder with water to prevent the formation of dust.
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 and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.
Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4 Reference to other sections

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

## Section 7 Handling and storage

### 7.1 Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

### 7.2 Conditions for safe storage, including any incompatibilities

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

| **Storage class TRGS 510 (Germany)** |
|---|
| 8A – Combustible corrosive substances |

**Applicable technical instruction according to Royal Decree 656/2017:**

| **Classification** | **Storage in fixed containers** | **Storage in mobile containers** |
|---|---|---|
| | Not applicable | MIE APQ-10 – Storage in mobile containers |
| Respect the joint storage conditions established in Royal Decree 656/2017. | | |

Storage temperature range between +5 ° C and +30 ° C.

### 7.3 Specific end use(s)

Special uses:
Building and construction.

## Section 8 Exposure controls/personal protection

### 8.1 Control parameters

Quartz (SiO2)-CAS 14808-60-7-C%:> = 50- <80:
The quartz contained in the product is classified as non -dangerous. Furthermore, being linked to the other liquid/pasty components of the mixture, it is not freely available during use. The final product has a pasty consistency and the exposure limits to the inhalation powders are not relevant.

| **Regulatory references** | |
|---|---|
| ACGIH | ACGIH 2026 |

**M-PHENYLENEBIS (METHYLAMINE)**

| | **TWA** | | **STEL** | | **CEILING** | | **Remarks** | |
|---|---|---|---|---|---|---|---|---|
| | **mg/m³** | **ppm** | **mg/m³** | **ppm** | **mg/m³** | **ppm** | | |
| ACGIH | | | | | 0.018 | | Skin | |

Section 8

| Predicted no-effect concentration - PNEC | |
|---|---|
| Normal value of STP microorganisms | 10 mg/l |
| Normal value in fresh water | 0.094 mg/l |
| Normal value for fresh water sediment | 12.4 mg/kg/d |
| Normal value in marine water | 0.0094 mg/l |
| Normal value for marine water sediment | 1.24 mg/kg/d |

| Health - Derived no-effect level - DNEL / DMEL | Local effect | Systemic effect |
|---|---|---|
| Workers, long-term, dermal | Not available | 0.33 mg/kg bw/d |
| Workers, long-term, inhalation | 0.2 mg/m³ | 1.2 mg/m³ |

**BENZYL ALCOHOL**

| Predicted no-effect concentration - PNEC | |
|---|---|
| Normal value of STP microorganisms | 39 mg/l |
| Normal value in fresh water | 1 mg/l |
| Normal value for fresh water sediment | 5.27 mg/kg/d |
| Normal value in marine water | 0.1 mg/l |
| Normal value for marine water sediment | 0.527 mg/kg/d |
| Normal value for the terrestrial compartment | 0.456 mg/kg/d |
| Normal value for water, intermittent release | 2.3 mg/l |

| Health - Derived no-effect level - DNEL / DMEL | Local effect | Systemic effect |
|---|---|---|
| Consumers, short-term, dermal | Not available | 20 mg/kg bw/d |
| Consumers, short-term, inhalation | Not available | 27 mg/m³ |
| Consumers, short-term, oral | Not available | 20 mg/kg bw/d |
| Consumers, long-term, dermal | Not available | 4 mg/kg bw/d |
| Consumers, long-term, inhalation | Not available | 5.4 mg/m³ |
| Consumers, long-term, oral | Not available | 4 mg/kg bw/d |
| Workers, short-term, dermal | Not available | 40 mg/kg bw/d |
| Workers, short-term, inhalation | Not available | 110 mg/m³ |
| Workers, long-term, dermal | Not available | 8 mg/kg bw/d |
| Workers, long-term, inhalation | Not available | 22 mg/m³ |

**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

| Predicted no-effect concentration - PNEC | |
|---|---|
| Normal value of STP microorganisms | 3.18 mg/l |
| Normal value in fresh water | 0.06 mg/l |
| Normal value for fresh water sediment | 5.784 mg/kg |
| Normal value in marine water | 0.006 mg/l |
| Normal value for marine water sediment | 0.578 mg/kg |
| Normal value for the terrestrial compartment | 1.121 mg/kg |
| Normal value for water, intermittent release | 0.23 mg/l |

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

| Predicted no-effect concentration - PNEC | |
|---|---|
| Normal value of STP microorganisms | 10 mg/l |
| Normal value in fresh water | 0.011 mg/l |
| Normal value for fresh water sediment | 4,320 mg/kg/d |
| Normal value in marine water | 0.001 mg/l |
| Normal value for marine water sediment | 432 mg/kg/d |
| Normal value for the terrestrial compartment | 864 mg/kg/d |
| Normal value for the food chain (secondary poisoning) | 1 mg/kg |

| Health - Derived no-effect level - DNEL / DMEL | Local effect | Systemic effect |
|---|---|---|
| Consumers, long-term, dermal | | 0.05 mg/kg bw/d |
| Consumers, long-term, inhalation | | 74 µg/m³ |
| Consumers, long-term, oral | | 0.05 mg/kg bw/d |
| Workers, long-term, dermal | | 0.14 mg/kg bw/d |
| Workers, long-term, inhalation | | 0.493 mg/m³ |

### 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.
When choosing risk management measures and operating conditions, consult the exposure scenarios attached.
Provide an emergency shower with face and eye wash station.

HAND PROTECTION
In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).
Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.
Protect your hands with gloves of the following type:

**Protect your hands with gloves of the following type**

| Material | Thickness | Breakthrough time |
|---|---|---|
| **Nitrile rubber (NBR)**<br>The following should be considered when choosing work glove material: compatibility, degradation, permeability time. | **0.4 mm**<br>– | **480 min**<br>– |

SKIN PROTECTION
Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344/EN ISO 13034).
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
None required, unless indicated otherwise in the chemical risk assessment.

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

| | | |
|---|---|---|
| Physical state | Solid pasty | |
| Colour | black | |
| Odour | amino | |
| Odour threshold | Not applicable | |
| Melting point / freezing point | Not available | |
| Initial boiling point | Not applicable | |
| Flammability | Not available | |
| Lower explosive limit | Not available | |
| Upper explosive limit | Not available | |
| Flash point | Not applicable | |

| | | |
|---|---|---|
| Auto-ignition temperature | Not available | |
| Decomposition temperature | Not available | |
| pH | not soluble in water | |
| Kinematic viscosity | Not available | |
| Solubility | immiscible with water | |
| Partition coefficient: n-octanol/water | Not available | |
| Vapour pressure | Not applicable | |
| Density and/or relative density | 1.5 ≤ x ≤ 1.7 kg/l | Temperature: 23 °C (73.4 °F) |
| Relative vapour density | Not available | |

**Particle characteristics**

Information not available.

## 9.2 Other information

### 9.2.1 Information with regard to physical hazards

Information not available.

### 9.2.2 Other safety characteristics

| | | |
|---|---|---|
| Total solids | 0 % | Temperature: 250 °C (482 °F) |

# Section 10 Stability and reactivity

## 10.1 Reactivity

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

**BENZYL ALCOHOL**

Decomposes at temperatures above 870 °C (1,598 °F)
Possibility of explosion
BENZYL ALCOHOL: decomposes at temperatures higher than 870°C/1598°F with possibility of explosion.

## 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.

**BENZYL ALCOHOL**

May react dangerously with: hydrobromic acid, iron, oxidising agents, sulphuric acid
Risk of explosion on contact with: phosphorus trichloride
BENZYL ALCOHOL: may react dangerously with: hydrobromic acid and iron in the presence of heat, oxidising agents and sulphuric acid. Risk of explosion on contact with: phosphorus trichloride.

**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

May react dangerously with: strong oxidising agents, concentrated inorganic acids

## 10.4 Conditions to avoid

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

**BENZYL ALCOHOL**

Avoid exposure to: air, sources of heat, naked flames
BENZYL ALCOHOL: avoid exposure to the air, sources of heat and naked flames.

**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

Avoid contact with: strong acids, strong oxidants

### 10.5 Incompatible materials

**BENZYL ALCOHOL**

Incompatible with: sulphuric acid, oxidising substances, aluminium
BENZYL ALCOHOL: sulphuric acid, oxidising substances and aluminium.

### 10.6 Hazardous decomposition products

Information not available.

## 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

#### 11.1.1 Metabolism, toxicokinetics, mechanism of action and other information

Information not available.

#### 11.1.2 Information on likely routes of exposure

Information not available.

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

Information not available.

#### 11.1.4 Interactive effects

Information not available.

#### 11.1.5 ACUTE TOXICITY

ATE (inhalation - vapours) of the mixture: >20 mg/l
ATE (oral) of the mixture: 1278.29 mg/kg
ATE (dermal) of the mixture: not classified (no relevant component)

| | |
|---|---|
| ATE (Inhalation - mists / powders) of the mixture | 2.701 mg/l |
| ATE (Oral) of the mixture | 940.972 mg/kg |
| ATE (Dermal) of the mixture | Not classified (no significant component) |

**M-PHENYLENEBIS (METHYLAMINE)**

| | | |
|---|---|---|
| LD50 (Oral): | 200 mg/kg | Species/guidelines: Rat |
| LD50 (Dermal): | > 3,100 mg/kg | Species/guidelines: Rat |
| LC50 (Inhalation mists/powders): | 1.34 mg/l | Exposure duration: 4 hours<br>Species/guidelines: Rat |
| ATE (Oral) | 500 mg/kg | estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture) |

**BENZYL ALCOHOL**

| | | |
|---|---|---|
| LD50 (Oral): | 1,620 mg/kg | Species/guidelines: Rat |
| LD50 (Dermal): | > 2,000 mg/kg | Species/guidelines: Rabbit |

| | | |
|---|---|---|
| LC50 (Inhalation vapours): | > 4.1 mg/l | Exposure duration: 4 hours<br>Species/guidelines: Rat |
| LC50 (Inhalation mists/powders): | > 4,178 mg/l | Exposure duration: 4 hours<br>Species/guidelines: Rat |
| ATE (Inhalation - mists / powders) | 1.5 mg/l | estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture) |

**2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL**

| | | |
|---|---|---|
| LD50 (Oral): | 2,169 mg/kg | Species/guidelines: Rat |
| ATE (Oral) | 500 mg/kg | estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture) |

**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

| | | |
|---|---|---|
| LD50 (Oral): | 1,030 mg/kg | |
| LC50 (Inhalation mists/powders): | > 5.01 mg/l | Exposure duration: 4 hours<br>Species/guidelines: Rat |
| ATE (Inhalation - mists / powders) | 1.5 mg/l | estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture) |

**11.1.6 SKIN CORROSION/IRRITATION**

Corrosive for the skin

**11.1.7 SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye damage.

**11.1.8 RESPIRATORY OR SKIN SENSITISATION**

Sensitising for the skin

**11.1.9 GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

**11.1.10 CARCINOGENICITY**

Does not meet the classification criteria for this hazard class

**11.1.11 REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class

**11.1.12 STOT - SINGLE EXPOSURE**

Does not meet the classification criteria for this hazard class

**11.1.13 STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class

**11.1.14 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

**M-PHENYLENEBIS (METHYLAMINE)**

| | | |
|---|---|---|
| EC50 - for Crustacea | 15.2 mg/l | Exposure duration: 48 hours<br>Species/guidelines: Daphnia magna |
| LC50 - for Fish | > 100 mg/l | Exposure duration: 96 hours<br>Species/guidelines: Oryzias latipes |
| EC50 - for Algae / Aquatic Plants | 20.3 mg/l | Exposure duration: 72 hours<br>Species/guidelines: Pseudokirchneriella subcapitata |
| Chronic NOEC for Crustacea | 4.7 mg/l | Species/guidelines: Daphnia magna |
| Chronic NOEC for Algae / Aquatic Plants | 6.25 mg/l | |

**BENZYL ALCOHOL**

| | | |
|---|---|---|
| EC50 - for Crustacea | 230 mg/l | Exposure duration: 48 hours<br>Species/guidelines: Daphnia magna |
| LC50 - for Fish | 460 mg/l | Exposure duration: 96 hours<br>Species/guidelines: Alge Scenedesmus sp. |
| EC50 - for Algae / Aquatic Plants | 770 mg/l | Exposure duration: 72 hours<br>Species/guidelines: Pseudokirchneriella subcapitata |
| Chronic NOEC for Crustacea | 51 mg/l | Species/guidelines: Daphnia magna |
| Chronic NOEC for Algae / Aquatic Plants | 310 mg/l | Species/guidelines: Pseudokirchneriella subcapitata |

**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

| | | |
|---|---|---|
| EC50 - for Crustacea | 23 mg/l | Exposure duration: 48 hours<br>Species/guidelines: Daphnia magna |
| LC50 - for Fish | 110 mg/l | Exposure duration: 96 hours<br>Species/guidelines: Brachydanio rerio |
| EC50 - for Algae / Aquatic Plants | 37 mg/l | Exposure duration: 72 hours<br>Species/guidelines: Scenedesmus subspicatus |

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

| | | |
|---|---|---|
| EC50 - for Crustacea | 11.1 mg/l | Exposure duration: 48 hours<br>Species/guidelines: Daphnie (OECD 202) |
| LC50 - for Fish | 70.7 mg/l | Exposure duration: 96 hours<br>Species/guidelines: Fish (OECD 203) |
| EC50 - for Algae / Aquatic Plants | 79.4 mg/l | Exposure duration: 72 hours<br>Species/guidelines: Aquatic algae |

## 12.2 Persistence and degradability

**M-PHENYLENEBIS (METHYLAMINE)**

| | | |
|---|---|---|
| Solubility in water | 1,000 ≤ x ≤ 10,000 mg/l | |
| Degradability | NOT rapidly degradable | |

**BENZYL ALCOHOL**

| | | |
|---|---|---|
| Solubility in water | 40 g/l | |
| Degradability | Rapidly degradable | |

**2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL**

| | | |
|---|---|---|
| Solubility in water | > 10,000 mg/l | |
| Degradability | NOT rapidly degradable | |

**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

| | | |
|---|---|---|
| Solubility in water | 1,000 ≤ x ≤ 10,000 mg/l | |
| Degradability | NOT rapidly degradable | |

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

| | | |
|---|---|---|
| Solubility in water | 22.18 g/l | |
| Degradability | NOT rapidly degradable | |

## 12.3 Bioaccumulative potential

**M-PHENYLENEBIS (METHYLAMINE)**

| | |
|---|---|
| Partition coefficient n-octanol/water | 0.18 LogKow |

**BENZYL ALCOHOL**

| | |
|---|---|
| Partition coefficient n-octanol/water | 1.1 LogKow |

**2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL**

| | |
|---|---|
| Partition coefficient n-octanol/water | -0.66 LogKow |

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

| | |
|---|---|
| Partition coefficient n-octanol/water | 3.6 LogKow |

## 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

EER 080410 - Hindu product; 080409 - product not hardened.

## 13.1 Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

| **Directive 2008/98/EC (waste)** |
|---|
| For the disposal of waste from this material, the hazard characteristics shall be assessed in accordance with Directive 2008/98/EC. Any transboundary shipment must comply with Regulation (EU) 2024/1157. |

Section 13

| Hazardous waste classification - Reg. (UE) 1357/2014 |
|---|
| HP 6 – Acute Toxicity |
| HP 8 – Corrosive |
| HP 13 – Sensitising |
| HP 14 – Ecotoxic |

## Section 14 Transport information

### 14.1 UN number or ID number

| ADR / RID | IMDG | IATA |
|---|---|---|
| UN 3259 | UN 3259 | UN 3259 |

### 14.2 UN proper shipping name

| | |
|---|---|
| ADR / RID | AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID, CORROSIVE, N.O.S. (M-PHENYLENEBIS (METHYLAMINE) – 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL) |
| IMDG | AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID, CORROSIVE, N.O.S. (M-PHENYLENEBIS (METHYLAMINE) – 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL) |
| IATA | AMINES, SOLID, CORROSIVE, N.O.S. or POLYAMINES, SOLID, CORROSIVE, N.O.S. (M-PHENYLENEBIS (METHYLAMINE) – 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL) |

### 14.3 Transport hazard class(es)

| | Class | Label | |
|---|---|---|---|
| ADR / RID | 8 | 8 |  |
| IMDG | 8 | 8 |  |
| IATA | 8 | 8 |  |

### 14.4 Packing group

| ADR / RID | IMDG | IATA |
|---|---|---|
| III | III | III |

### 14.5 Environmental hazards

| | | |
|---|---|---|
| ADR / RID | No | |
| IMDG | Not marine pollutant | |
| IATA | No | |

### 14.6 Special precautions for user

| ADR / RID | | | |
|---|---|---|---|
| Hazard identification No. - Kemler | 80 | Limited Quantities | 5 kg |
| Tunnel restriction code | (E) | Special provisions | 274 |
| **IMDG** | | | |
| EmS | F-A, S-B | Limited Quantities | |
| **IATA** | | | |

| | | | |
|---|---|---|---|
| Maximum quantity (Cargo) | 100 Kg | Packaging instructions (Cargo) | 864 |
| Maximum quantity (Passengers) | 25 Kg | Packaging instructions (Passengers) | 860 |
| Special provisions | A3, A803 | | |

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

## Section 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Seveso Category - Directive 2012/18/EU:**

None

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

| | Restrictions | Registration Number EU |
|---|---|---|
| Product restrictions | -- | |
| **Contained substance** | | |
| | 75 | |

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

Not applicable

| **Substances in Candidate List (Art. 59 REACH)** | **Registration Number EU** |
|---|---|
| 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)** | **Authorisation Number** | **Sunset date** | **Registration Number EU** |
|---|---|---|---|
| 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

**Regulation (EU) 2019/1021 - on persistent organic pollutants**

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.

**Notification Art. 45 CLP**

The mixture may not have been notified in all EU Member States. In the event of resale in a country other than the one in which it was purchased, contact the supplier to verify any applicable obligations.

**Regulation (EU) 2024/590 – Substances that deplete the ozone layer**

| Annex I. Contains: | Annex II. Contains: |
|---|---|
| None | None |

| German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) |
|---|
| WGK2 – Hazard to waters |

| Denmark - MAL code - Executive Order No. 301 of 13 May 1993 |
|---|
| n.a. |

### 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: | |
|---|---|
| Acute Tox. 4 | Acute toxicity, category 4 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| Eye Dam. 1 | Serious eye damage, category 1 |
| Eye Irrit. 2 | Eye irritation, category 2 |
| Skin Corr. 1B | Skin corrosion, category 1B |
| Skin Irrit. 2 | Skin irritation, category 2 |
| Skin Sens. 1 | Skin sensitization, category 1 |
| Skin Sens. 1A | Skin sensitization, category 1A |
| Skin Sens. 1B | Skin sensitization, category 1B |
| EUH071 | Corrosive to the respiratory tract. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H412 | 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
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Effective concentration (required to induce a 50% effect)
- EC: Identifier in ESIS (European archive of existing substances)
- 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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train

Section 16

**Legend**

- 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
- vPvM: Very persistent and very mobile
- 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 (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 (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)
26. Delegated Regulation (EU) 2024/197 (XXI ATP CLP)
27. Delegated Regulation (EU) 2024/2564 (XXII ATP CLP)
28. Regulation (EU) 2024/2865
29. Delegated Regulation (EU) 2025/1222 (XXIII 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**

Section 16

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 from the previous revision**

This SDS has been prepared with a different software from the one previous revision. The new calculation does not allow us to identify all the differences compared to the previous version. We therefore recommend carefully reviewing all 16 sections of the SDS. We remain available to provide any clarification regarding the content or the changes made compared to the previous version, which is available to professional or industrial users.