SECTION 1: Product and Society identification

1.1 Product identification

Denomination: WATstop BLACK COLOR (part A)
N° of registration Reach: free.

1.2 Relevant identified uses of product and recommended uses

Three-component epoxy resin to waterproof both with negative and positive pressure, to be used as osmotic over underground walls, to encapsulate rising dampness and to achieve a vapour barrier on wet supports.

1.3 Details of the supplier of the safety data sheet

Name of society: Diasen s.r.l.
Z.ind.le Berbentina, 5
60041 Sassoferrato An – Italia
Tel. +39 0732 9718
Fax +39 0732 971899
E-mail: reach@diasen.com

1.4 Emergency telephone number

Emergency telephone number of the company and / or official advisory body: Diasen s.r.l. Tel. 0732/9718

Available outside working hours? No.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Classification</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4</td>
<td>H 302</td>
</tr>
<tr>
<td>Skin Corr./Irrit. 2</td>
<td>H 315</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>H 318</td>
</tr>
<tr>
<td>Eye Dam./Irrit. 2</td>
<td>H 319</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>H 317</td>
</tr>
<tr>
<td>Muta. 2</td>
<td>H 341</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>H 411</td>
</tr>
</tbody>
</table>
2.2 Label elements
Label according the regulation (CE) n. 1272/2008 [CLP]

Hazard pictograms

![Pictograms]

Warning:
Caution.

Hazard statement:
H 302
H 315
H 318
H 319
H 317
H 341
H 411

Safety advice:
P 280
P 305 + P 351 + P 338
P 310
P 405
P 501

Additional information on the dangers (EU):
EUH 205 – It contains epoxy constituents. It may cause an allergic reaction.

2.3 Other hazard
Data no available.

Classification and labelling have been made on the basis of safety data sheets of raw materials that make up the product.

SECTION 3: Composition/information on ingredients
3.1 Substance
Not applicable. The product is a mixture.
### 3.2 Mixture

**Hazard substance:**

<table>
<thead>
<tr>
<th>Registration number (CE)</th>
<th>Numbe r CAS</th>
<th>Number CE</th>
<th>% [weight]</th>
<th>Name</th>
<th>Classification according to Regulation (CE) n.1272/2008 (CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01-2119456619-26</td>
<td>25068-38-6</td>
<td>500-033-5</td>
<td>30 - 40</td>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)</td>
<td>Skin Sens. 1, Skin Corr./Irrit. 2, Eye Dam./Irrit. 2, Aquatic Chronic 2</td>
</tr>
<tr>
<td></td>
<td>01-2119431597-33</td>
<td>26761-45-9</td>
<td>5 - 7</td>
<td>Neodecanoate of 2,3 epoxypropyl</td>
<td>Skin Sens. 1, Aquatic Chronic 2, Muta. 2</td>
</tr>
<tr>
<td></td>
<td>9016-45-9</td>
<td>500-024-6</td>
<td>0 – 1.5</td>
<td>Nonylphenyl ether of polyethylene glycol</td>
<td>Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2</td>
</tr>
</tbody>
</table>

**Additional Information:**

It contains quartz (SiO2) in a non-threatening as dispersed and therefore not inhalable. For the full text of the H advice: see SECTION 16.

**Impurity:**

It does not contain impurities relevant for classification and labelling.

---

**SECTION 4: First aid measures**

**4.1 Description of aid measures**

**In case of inhalation**

Ventilate the premises. Remove the patient from the contaminated premises to rest in the open air. If you feel unwell seek medical advice, showing this safety data sheet. Loosen tight clothing such as a collar, tie, belt or waistband.

**In case of contact with skin**

Remove all traces of product and rinse with water the contaminated body surfaces. Continue to rinse for at least 10 minutes. Remove contaminated clothing. If necessary seek medical advice, showing this safety data sheet. Wash all clothing and shoes before reuse.
In case of contact with eyes
Do not rub. Rinse immediately with plenty of running water, with eyelids open, for at least 15 minutes. In case of presence of contact lenses, remove them. If irritation persists, seek medical advice, showing this safety data sheet.

If swallowed
Rinse mouth with water, drink 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Move exposed person to fresh air. Call a doctor immediately, showing this safety data sheet. If unconscious, place in recovery position and get medical attention immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Indication of any immediate medical attention or special treatment
No symptoms are observed both acute and delayed. The negative symptoms associated with overexposure may include:
- Redness and irritation to the skin,
- Irritation, tearing and redness in the eyes.

4.3 Indication of any immediate medical attention or special treatment
No specific treatment. Treat symptomatically. Should have been ingested or inhaled large amounts, immediately contact a poison control centre. Not to be no action taken involving any personal risk or without suitable training. Perform mouth-to-mouth can be dangerous to the person providing aid. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SECTION 5: Fire fighting measures
5.1 Extinguishing media
Suitable extinguishing agents: dry chemical, CO₂, alcohol-resistant foam or water spray. Use extinguishing measures appropriate to local circumstances and the surrounding environment. Unsuitable extinguishing agents: jet.

5.2 Special hazards arising from the substance
Dangers of the substance or mixture: In case of fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition: the decomposition products may include the following materials: carbon dioxide, carbon monoxide, halogenated compounds.

5.3 Advice for fire-fighters
Promptly isolate the scene by removing all persons from the vicinity of a fire. Not to be no action taken involving any personal risk or without suitable training. Use the means of extinction appropriate to local circumstances and particular environment. Fire water contaminated with this material must be contained and must prevent access to any waterway, sewer or drain.
SECTION 6: Measures in case of accidental release
6.1 Personal precautions, protective equipment and emergency procedures
6.1.1 For non-emergency personnel
Remove those who do not have appropriate protection and ensure adequate ventilation. Avoid contact with skin, eyes and clothing - wear the appropriate personal protective equipment (see section 8). Avoid inhalation of vapour - ensure adequate ventilation or wear protective equipment, wear appropriate protective clothing (see section 8).

6.1.2 For emergency responders
Remove people who do not wear any protective equipment and ensure adequate ventilation. Avoid contact with skin, eyes and clothing - wear suitable protective equipment (see section 8). Avoid inhalation of vapours - wear protective mask / protective device appropriate (see section 8).

6.2 Environmental precautions
Contain the spillage. Avoid that the product reaches uncontrollably water course or sewage system. The product is water pollutant. In the event of any spillage into waterways, alert the Environment Agency or other body in charge of environmental protection.

6.3 Methods and material for containment and cleaning up
Small quantity: move containers from spill and collect spillage with absorbent material (sand, sawdust, universal absorbent, diatomaceous earth) after possibly dilute the material with water, pour in suitable and labelled containers with lids and dispose of in local, national and EU regulations. Treat the washing water the same way as contaminated waste. If the spill happened indoors ventilate the room.

Big quantity: approach the release from upwind and transfer the spilled material in a labelled container to recover the product or to dispose of it safely in accordance with local, national and EU regulations. Unless otherwise specified, treated as small quantities. If the spill occurred in an enclosed air the room.

6.4 Reference to other sections
Information regarding exposure controls / personal protection and disposal considerations can be found in sections 8 and 13.

SECTION 7: Handling and storage
7.1 Precautions for safe handling
7.1.1 Protection measure
Avoid contact with skin, eyes and mucous membranes, do not swallow. Wear protective equipment for hands, eyes and skin (see item 8). Do not wear contact lenses when working with this product. It is also recommended to bring along a pocket eyewash. Provide adequate ventilation. In case of
7.1.2. Advice on general occupational hygiene
Avoid inhalation, ingestion or contact with skin and eyes. They also require general measures of hygiene at work to ensure the safe handling of the substance. You must apply measures general hygienic measures to ensure the safe handling of the substance. These measures include good personal practices, regular cleaning of workplaces, do not drink, eat or smoke in the workplace. Take a shower and change clothes when you’re not working. Do not wear contaminated clothing at home. Wash them separately.

7.2 Conditions for safe storage, including any incompatibilities
The product should be stored in a dry place, away from sunlight, water and frost, at temperatures between +5 °C and +35 °C in original packaging intact and air tight. Do not store near sources of ignition, open flames or excessive heat.
Avoid store together with non-compatible materials that may give decomposition after contamination with the product, such as the peroxides. Incompatible materials: strong oxidizing agents sodium hydroxide.

Recommendations: Use original container.

7.3 Specific end uses
No applicable.

8. Exposure controls/personal protection
8.1 Control parameters
Exposure Limit Values:

<table>
<thead>
<tr>
<th>Component denomination</th>
<th>Exposition / effects</th>
<th>DNEL</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)</td>
<td>In the short term Dermal /Systemic</td>
<td>8.3 mg/kg bw/day</td>
<td>Workers</td>
</tr>
<tr>
<td></td>
<td>In the short term Inhalation / Systemic</td>
<td>12.3 mg/m³</td>
<td>Workers</td>
</tr>
<tr>
<td></td>
<td>In the short term Dermal /Systemic</td>
<td>8.3 mg/kg bw/day</td>
<td>Workers</td>
</tr>
<tr>
<td></td>
<td>In the short term Inhalation / Systemic</td>
<td>12.3 mg/m³</td>
<td>Workers</td>
</tr>
<tr>
<td></td>
<td>In the short term Dermal /Systemic</td>
<td>3.6 mg/kg bw/day</td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>In the short term Inhalation / Systemic</td>
<td>0.75 mg/m³</td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>In the short term Oral/Systemic</td>
<td>0.75 mg/kg bw/day</td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>Long terming Dermal /Systemic</td>
<td>3.6 mg/kg</td>
<td>General</td>
</tr>
</tbody>
</table>
### Long term Exposure Limits

<table>
<thead>
<tr>
<th>Component denomination</th>
<th>Detail environment</th>
<th>PNEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight (\leq 700))</td>
<td>Fresh water</td>
<td>3 (\mu g/l)</td>
</tr>
<tr>
<td></td>
<td>Marine</td>
<td>0.3 (\mu g/l)</td>
</tr>
<tr>
<td></td>
<td>Sewage Treatment Plant</td>
<td>10 mg/l</td>
</tr>
<tr>
<td></td>
<td>Sediment running water</td>
<td>0.5 mg/kg dwt</td>
</tr>
<tr>
<td></td>
<td>Sediment seawater</td>
<td>0.5 mg/kg dwt</td>
</tr>
<tr>
<td></td>
<td>Sediment</td>
<td>0.05 mg/kg dwt</td>
</tr>
<tr>
<td></td>
<td>Discontinuous Release</td>
<td>0.013 mg/l</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>neodecanoate of 2,3-epoxypropyl</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh water</td>
</tr>
<tr>
<td>Marine</td>
</tr>
<tr>
<td>Sewage Treatment Plant</td>
</tr>
<tr>
<td>Continuous Release</td>
</tr>
</tbody>
</table>

The product contains quartz, and the United Kingdom is subject to a mandatory maximum exposure limit of 0.3 mg / m\(^3\) of breathable quartz in a time-weighted average of 8 hours. If these limits are exceeded must use a system for the extraction of the powder. The occupational exposure limit (LEP) for breathable crystalline silica dust is 0.025 mg / m\(^3\) measured in Italy as TWA (time-weighted average).

Such exposure limit is wrong taken into account in the normal conditions of use and storage as is present inside the product in a liquid dispersion and therefore not inhalable. For the equivalent limits in other countries, consult a competent occupational hygienist or the institution of field.

### 8.2 Exposure control

To limit potential exposure, prevent the generation of vapour or aerosol. In addition, it is recommended to wear protective equipment. Wear protection devices for the eyes (e.g. goggles or face shield) unless the potential contact with the eye can be excluded by the nature and the type of application.
**8.2.1 Appropriate engineering controls**
If the use of the product creates fumes, use local exhaust ventilation or other technical means to keep exposure below recommended exposure limits.

**8.2.2 Individual protection measures, such as personal protective equipment**

**Hygiene measures**

**8.2.2.1 Eye/face protection**
Do not use contact lenses. Use tight-fitting goggles with side shields, or mask type conforming to EN 166 (single lens glasses, safety glasses or goggles to mask for chemical use). Use an eye protection compatible with the system used for the protection of the respiratory tract. It is also recommended that you bring the individual pocket eyewash.

**8.2.2.2 Skin protection**
Wear suitable protective gloves (PVC gloves, nitride rubber, natural rubber, neoprene gloves nitride rubber, butyl rubber or butyl rubber gloves to the elbow), conforming to EN 374 part 1 and 2. One must keep in mind that, because of several factors (for example temperature), the duration of a glove for protection against chemical agents may be considerably lower than the permeation time detected by the test. Change protective gloves used in the presence of signs of wear or contamination. Wear protective clothing standards covering the entire surface of the skin, long pants, long-sleeved suit, adhering to the end and safety boots resistant to chemical attack without holes for the laces.

**8.2.2.3 Respiratory protection**
Wear a device for respiratory protection meeting the requirements of European or national legislation. If it exceeds the occupational exposure limit is necessary to use an air-purifying respirator (EN149FFP2). In confined spaces wear half-mask with filter coupled organic vapour / dust NPF 20 (gas only). If the product is applied by spraying it is recommended wear an independent respirator.

**8.2.2.4 Thermal hazards**
No data available.

**8.2.3 Environmental exposure controls**
Contain the spillage. In the event of any spillage into waterways, alert the Environment Agency or other body in charge of environmental protection.

---

**SECTION 9: Physical And Chemical Proprieties**

**9.1 Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Aspect</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>black</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not determined</td>
</tr>
<tr>
<td>Specific weight</td>
<td>1.53 kg/l</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>not determined</td>
</tr>
</tbody>
</table>
### TECHNICAL DEPARTMENT

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial boiling point and boiling range</td>
<td>&gt; 200°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>about 110°C.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>not determined</td>
</tr>
<tr>
<td>Flammability</td>
<td>not determined</td>
</tr>
<tr>
<td>Upper / lower flammability or explosive</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour Density</td>
<td>not determined</td>
</tr>
<tr>
<td>Relative density</td>
<td>not determined</td>
</tr>
<tr>
<td>Solubility</td>
<td>miscible in water</td>
</tr>
<tr>
<td>Coefficient of n-octane / water</td>
<td>not determined</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>not determined</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>not determined</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>not determined</td>
</tr>
</tbody>
</table>

Note: the above values related to physicochemical properties are typical values for this product and should not, therefore, be construed as a specification.

### 9.2 Other information

No data available.

### 10. SECTION 10: Stability and reactivity

#### 10.1 Reactivity

It reacts with strong oxidizing agents. Polymerizes, with exothermic reaction, in the presence of amines, mercaptans, and Lewis acids, at room temperature and above. Polymerizes in the presence of caustic soda. It reacts exothermically with bases (e.g. caustic soda) ammonia, primary and secondary amines, alcohols, water and acids.

#### 10.2 Chemical stability

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

#### 10.3 Possibility of hazardous reactions

The product is stable at room temperature and under normal conditions of use. It reacts with strong oxidizing agents. It can release nitrogen oxides and carbon monoxide during combustion.

#### 10.4 Conditions to avoid

The product should be stored in closed containers in ventilated places, well protected from the sun, water, freezing conditions at temperatures between +5 °C and +35 °C. Do not store near sources of ignition, open flames or excessive heat. Do not store together with incompatible materials such as caustics.

#### 10.5 Incompatible Materials

Strong oxidizing agents, sodium hydroxide.
10.6 Hazardous decomposition products
It does not generate decomposition products in normal conditions of storage and use.

SECTION 11: Toxicological information
11.1 Information on toxicological effects
In the absence of experimental toxicological data on the product itself, the potential risks of the product to health were evaluated based on the properties of substances, according to the criteria laid down by the relevant regulations for the classification. Consider, therefore, the concentration of each substance dangerous possibly mentioned in sect. 3, to assess the toxicological effects resulting from exposure to the product.

Toxicological information of the mixture: No data available.
Toxicological information of the main substances in the mixture:

**Acute toxicity**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Specification</th>
<th>assumption</th>
<th>Specie</th>
<th>Value</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)</td>
<td>DL50</td>
<td>Oral</td>
<td>Rat</td>
<td>&gt; 2000 mg/kg</td>
<td>Not acutely toxic.</td>
</tr>
<tr>
<td>neodecanoate of 2,3-epoxypropyl</td>
<td>DL50</td>
<td>Oral</td>
<td>Rat</td>
<td>&gt;9.7 mg/kg</td>
<td>Not acutely toxic.</td>
</tr>
<tr>
<td></td>
<td>DL50</td>
<td>Dermal</td>
<td>Rat</td>
<td>&gt;3.9 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Nonylphenyl ether of polyethylene glycol</td>
<td>DL50</td>
<td>Oral</td>
<td>Rat</td>
<td>1.31 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DL50</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>2.0 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

**Corrosion / irritation of the skin**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)</td>
<td>No test data available and relevant.</td>
</tr>
<tr>
<td>neodecanoate of 2,3-epoxypropyl</td>
<td>Not irritating to the skin.</td>
</tr>
<tr>
<td>Nonylphenyl ether of polyethylene glycol</td>
<td>No test data available and relevant.</td>
</tr>
</tbody>
</table>
### Eye irritation or serious eye damage

<table>
<thead>
<tr>
<th>Substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ( \leq 700 ))</td>
<td>Not irritating to the skin.</td>
</tr>
<tr>
<td>neodecanoate of 2,3-epoxypropyl</td>
<td>Not irritating to the skin.</td>
</tr>
<tr>
<td>Nonylphenyl ether of polyethylene glycol</td>
<td>No test data available and relevant.</td>
</tr>
</tbody>
</table>

### Skin sensitization

<table>
<thead>
<tr>
<th>Substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ( \leq 700 ))</td>
<td>Skin sensitizer.</td>
</tr>
<tr>
<td>neodecanoate of 2,3-epoxypropyl</td>
<td>Skin sensitizer.</td>
</tr>
<tr>
<td>Nonylphenyl ether of polyethylene glycol</td>
<td>No test data available and relevant.</td>
</tr>
</tbody>
</table>

### Respiratory Sensitization

<table>
<thead>
<tr>
<th>Substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ( \leq 700 ))</td>
<td>No test data available and relevant.</td>
</tr>
<tr>
<td>neodecanoate of 2,3-epoxypropyl</td>
<td>No test data available and relevant.</td>
</tr>
<tr>
<td>Nonylphenyl ether of polyethylene glycol</td>
<td>No test data available and relevant.</td>
</tr>
</tbody>
</table>

### Germ cell mutagenicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ( \leq 700 ))</td>
<td>It induces gene mutation test strains Ames / Salmonella TA1535 and TA100. In general, the mutagenic activity was greater without metabolic activation S9 liver. Induced gene mutation in mouse lymphoma L5178Y cells. Induced gene mutation and chromosomal damage in Chinese hamster V79 cells. Induced cell transformation in Syrian hamster BHK cells on the basis of clonal growth in soft agar. It induced no evidence of chromosomal damage in a study with oral probe in a dominant lethal test on mice conducted up to a high level of dosage of 10 grams / kg</td>
</tr>
</tbody>
</table>

**DIASEN Srl**  
Zona Ind. Berbentina, 5 60041 Sassoferrato (AN) - ITALY  
Tel. +39 0732 9718 - Fax +39 0732 971899 - diasen@diasen.com - www.diasen.com  
PARTITA IVA 01553210426 - R.E.A. Ancona n. 150933  
Reg. Imp. Ancona 01553210426 - Cap. Soc. euro 400.000,00.
and in a micronucleus test on mice conducted to a high dose of 5000 mg / kg. Negative in a cytogenetic test spermatocitico on male mice with treatment for 5 days orally by gavages using up to a high dose of 3000 mg / kg. Did not induce an increase in the frequency of chromosome damage in a cytogenetic test of bone marrow cells of Chinese hamster oral gavage up to a high dose of 3300 mg / kg. Did not induce an increase of strand breaks of DNA in cells of rat liver after treatment with oral gavage with 500 mg / kg, measured by alkaline elution.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neodecanoate of 2,3-epoxypropyl</td>
<td>Substance which cause concern for mutagenic effects</td>
</tr>
<tr>
<td>Nonylphenyl ether of polyethylene glycol</td>
<td>No test data available and relevant.</td>
</tr>
</tbody>
</table>

### Carcinogenicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)</td>
<td>No evidence of carcinogenicity observed.</td>
</tr>
<tr>
<td>Neodecanoate of 2,3-epoxypropyl</td>
<td>No evidence of carcinogenicity observed.</td>
</tr>
<tr>
<td>Nonylphenyl ether of polyethylene glycol</td>
<td>No test data available pertinent.</td>
</tr>
</tbody>
</table>

### Reproductive toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)</td>
<td>No adverse effect on reproduction was seen in a study with GLP probe oral rat / two generations according to OECD n. 416, led up to a level of high dosage of 750 mg / kg / day which resulted in decreases in body weight in the adult.</td>
</tr>
<tr>
<td>Neodecanoate of 2,3-epoxypropyl</td>
<td>No test data available and relevant.</td>
</tr>
<tr>
<td>Nonylphenyl ether of polyethylene glycol</td>
<td>No test data available and relevant.</td>
</tr>
</tbody>
</table>
**STOT – single exposure**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)</td>
<td>No adverse effect on reproduction was seen in a study with GLP probe oral rat / two generations according to OECD n. 416, led up to a level of high dosage of 750 mg / kg / day which resulted in decreases in body weight in adults.</td>
</tr>
<tr>
<td>neodecanoate of 2,3-epoxypropyl</td>
<td>No test data available and relevant</td>
</tr>
<tr>
<td>Nonylphenyl ether of polyethylene glycol</td>
<td>No test data available and relevant</td>
</tr>
</tbody>
</table>

**STOT – Repeated Exposure**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)</td>
<td>In sub-chronic oral toxicity study on rats conducted according to OECD n. 408, the NOAEL was 50 mg / kg / day. Significant evidence of haematotoxicity, related to dose, was observed at doses of 250 and 1000 mg / kg / day. There was a significant increase in blood urea nitrogen at 250 and 1000 mg / kg / day and a mild histopathologic evidence of involvement of the kidneys to the high dose of 1000 mg / kg / day. Histological examination is a mild to moderate degeneration of the seminiferous tubules in a dose of 1000 mg / kg / day and uterine possible effects at the same dose. The NOAEL for a study of dermal toxicity to 90 days (5 days / week) rat was equal to 100 mg / kg / day on the basis of decreases in body weight of 1000 mg / kg / day. On the basis of chronic dermatitis, Loaef for skin effects harmful in this study was equal to 10 mg / kg / day. No evidence of neurotoxicity was observed in a study conducted BPL for 90 days on mice according to OECD n. 411 up to a level of high dose of 1000 mg / kg / day with a battery of tests of functional assessment, evaluation of motor and neuro-histopathology.</td>
</tr>
<tr>
<td>neodecanoate of 2,3-epoxypropyl</td>
<td>Repeated dose toxicity (oral): Wistar rats males and females were exposed to a high dose of 10,000 ppm of 2,3-epoxypropyl neodecanoate in the food for a period of five weeks. Several apparent side effects, including: reductions in body weight gain, reduced food consumption, increase the relative weight of the liver and kidneys, alterations in clinical chemistry parameters, reduction in hemoglobin and hematocrit (only for males) and renal histopathology occurred in 5000 and 10,000 ppm. However, due to problems of palatability of the test substance, the NOAEL</td>
</tr>
</tbody>
</table>
for this study based on expert judgment is 5000 ppm of 2,3-epoxypropyl neodecanoate in food. Adverse events in the kidneys observed in male rats in this study are not relevant to human health.

Nonylphenyl ether of polyethylene glycol
No test data available and relevant.

The product was not tested. The data reported in this paragraph are based on the information contained in safety data sheets of raw materials that make up the product.

**SECTION 12: Ecological Information**

**12.1 Toxicity**
In the absence of experimental toxicological data on the product itself, the potential risks of the product to health were evaluated based on the properties of substances, according to the criteria laid down by the relevant regulations for the classification. Consider, therefore, the concentration of each substance dangerous possibly mentioned in sect. 3, to assess the toxicological effects resulting from exposure to the product.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Specification</th>
<th>Species</th>
<th>Value</th>
<th>Duration of test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700)</td>
<td>LC50</td>
<td>Fish</td>
<td>1.3 mg/l.</td>
<td>96 h</td>
</tr>
<tr>
<td></td>
<td>EC50</td>
<td>Daphnia</td>
<td>2.1 mg/l</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td>NOEC</td>
<td>Daphnia</td>
<td>0.3 mg/l</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>LC50</td>
<td>Algae</td>
<td>&gt;11 mg/l</td>
<td>72 ore</td>
</tr>
<tr>
<td></td>
<td>EC 50</td>
<td>Sewage sludge</td>
<td>&gt; 100 mg/l</td>
<td>72 ore</td>
</tr>
<tr>
<td>neodecanoate of 2,3-epoxypropyl</td>
<td>LC 50</td>
<td>Oncorhynchus mykiss (trola iridea)</td>
<td>9,6 mg/l</td>
<td>96 h</td>
</tr>
<tr>
<td></td>
<td>EC 50</td>
<td>Daphnia magna</td>
<td>10 mg/l</td>
<td>24 h</td>
</tr>
<tr>
<td></td>
<td>EC 50</td>
<td>Daphnia magna</td>
<td>4.8 mg/l</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td>EC 50</td>
<td>Algae</td>
<td>3.5 mg/l</td>
<td>96 h</td>
</tr>
<tr>
<td>Nonylphenyl ether of polyethylene glycol</td>
<td>CL50</td>
<td>Rainbow Trout</td>
<td>4.7 mg/l</td>
<td>96 h</td>
</tr>
</tbody>
</table>

**General Effect**
Data not available.

**12.2 Persistence and degradability**
*Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700):*
Not readily biodegradable.

**Disposal considerations:** Data not available.
Do not pour the product in the pipeline and water course, if the product has escaped into a water
course, into the drainage system or has contaminated the ground or vegetation, notify the competent authorities.

12.3 Potential for bioaccumulation

*neodecanoate of 2,3-epoxypropyl*  
low potential for bioaccumulation in water and soil.

12.4 Mobility in soil
*Reaction product: bisphenol-A-epichlorohydrin epoxy resin (number average molecular weight ≤ 700):* limited mobility in soil.

If the product enters soil, one or more of its components are mobile and can contaminate the ground water system.  
Assessment transport between environmental compartments: No data available.

12.5 Results of evaluations on the PBT or vPvB
According to information on substances, it was found that the mixture does not meet the criteria for PBT / vPvB.

12.6 Other adverse effects
No data available.

12.7 Additional information
Absorbable organic halogen compounds (AOX): No data available.  
The product was not tested. The data reported in this paragraph are based on the information contained in safety data sheets of raw materials that make up the product.

13. SECTION: Disposal consideration

13.1 Waste treatment methods
For disposal, remove the product in a suitable incineration plant, in accordance with regulations at the local, national and EU level. The preparation is not suitable for disposal in water disposal public, canals, natural waterways or rivers.

The package used is intended exclusively for the packaging of this product, it must not be reused for other purposes. All containers, even when completely empty, must not be disposed of properly and must undergo a proper decontamination treatment before starting their disposal. If they contain residues must be classified, stored and sent to a suitable treatment facility in accordance with applicable local, national and Community.
14. **SECTION: Transport information**

The product is classified as hazardous for transport (ADR for road, RID for rail, sea transport ADN internal IMDG / GGVSea by sea, IATA / ICAO aviation), but part of the "regime of limited quantities" which exempts 1.1.3.4. ADR, which contains special provisions or dangerous goods packed in limited quantities.

The limit for the inner packaging of the product, with reference to UN No. 3082 is 5 l. The goods are packed in inner packaging placed in an outer packaging, such as provisions on exemption.

14.1 **Number ONU**

3082

14.2 **Proper Shipping Name for ONU**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, NOS (Epichlorohydrin epoxy resin (number average molecular weight ≤ 700), the polyethylene glycol ether Nonylphenyl)

14.3 **Hazard class for transport**

class 9

14.4 **Packing Group**

III

14.5 **Environmental hazards**

Product dangerous for the environment according to the criteria of the UN Model Regulations and a marine pollutant according to the IMDG Code.

14.6 **Special precautions for users**

No data available.

14.7 **Transport of the product in accordance with the MARPOL73 / 78 and the IBC Code**

Not applicable.

*Transportation classifications may vary according to the different national law.*

---

15. **SECTION Regulatory information**

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

TECHNICAL DEPARTMENT

REACH) Relation CE/1272/2008 (classification, Labelling and Packaging of substances and mixtures)


15.2 Chemical Safety Assessment (CSA)
Not required. Exempt from REACH registration.

SECTION 16: Other Information
Full text of abbreviated H statements
H302 Harmful if swallowed
H315 Causes skin irritation
H 318 Causes serious eye damage
H 319 Causes serious eye irritation
H 317 May cause an allergic skin reaction
H 341 Suspected of causing genetic defects
H 411 Toxic to aquatic life with long lasting effects

Full text of precautionary statements P
P280 Wear protective gloves / protective clothing, eye protection, face protection.
P305 + P351 + P338 IF IN EYES: Rinse thoroughly for several minutes. Remove contact lenses if easy to do. Continue rinsing.
P310 Immediately call a doctor.
P405 Store locked up.
P501 Dispose of container in accordance with national regulations and international.

Classification and procedure used to derive under Regulation (CE) 1272/2008 [CLP] in relation to the mixtures:

<table>
<thead>
<tr>
<th>Classification in accordance with Regulation (EC) No. 1272/2008</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4</td>
<td>H 302</td>
</tr>
<tr>
<td>Skin Corr./Irrit. 2</td>
<td>H 315</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>H 318</td>
</tr>
<tr>
<td>Eye Dam./Irrit. 2</td>
<td>H 319</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>H 317</td>
</tr>
<tr>
<td></td>
<td>Minimum classification</td>
</tr>
</tbody>
</table>
TECHNICAL DEPARTMENT

Muta. 2  H 341
Aquatic Chronic 2  H 411

Abbreviations and acronyms:
EC50: median effective concentration.
LC50: median lethal concentration.
LD50: median lethal dose.
NOEC: no observable effect concentration.
PNEC: predicted no-effect concentration.
OEL: occupational exposure limit.
PBT: persistent, bio accumulative, toxic chemical.
vPvB: very persistent, very bio accumulative chemical.
STEL: short-term exposure limit.
TWA: time weighted average.
OIM: International Maritime Organization.
IMDG: International Maritime Dangerous Goods.
IATA: International Air Transport Association.
ADR/RID: Agreement on road transport of dangerous good / regulations of the international transport of dangerous goods by rail.
SCOEL: Scientific Committee on Occupational Exposure Limits.
CSAH: Comité Scientifique en matière d'Alimentation Humaine.

Key literature references and sources of data
The Merck Index Ed. 10;
Handling Chemical Safety;
Anonym, 2008: Recommendation from the Scientific Committee on Occupational Exposure Limits for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)2), Directorate General for Employment, Social Affairs and Equal Opportunities of the European Commission, SCOEL/SUM/137 February 2008.
Bureau Européen des substances Chimiques (ECB)
CIRC (Centre International de Recherche sur le Cancer).
HSDB (Hazardous Substances Data Bank) (National Library of Medicine).
INRS (Institut National de Recherche et de Sécurité).
IUCLID (International Uniform Chemical Information data Base).
RTECS (Registry of Toxic effects of Chemical Substances).
TECHNICAL DEPARTMENT
National Institute of Health - National inventory chemicals.
ECDIN – Environmental chemicals data and information network – Joint research centre, Commission of the European Communities.
ACGIH – Threshold limit values (2000).

Release:
This safety data sheet (SDS) is based on the legal provisions contained in the REACH Regulation (EC / 1907/2006), as amended and supplemented. The information contained herein is based on information in the MSDS of the raw materials that make up the product and our knowledge of the date indicated. They refer solely to the product indicated and constitutes no guarantee of particular quality.
Is not, no representation or warranty as to the accuracy, reliability and completeness of the data contained in this MSDS. The company assumes no liability for damage to persons or property that may result from use of the product other than that for which it was intended. The SDS does not replace but complements the lyrics or the rules governing the activities of the use. The user has full responsibility for the precautions that are necessary for the use you make of the preparation. This MSDS cancels and replaces any preceding release.

Indications of the changes made to the previous version of the SDS: review of the entire document.

This SDS is available in electronic form on the: www.diasen.com.
**SECTION 1: Identification of the substance or mixture and company**

**1.1 Product identification**

Denomination: **WATstop BLACK COLOR (part B)**

N° of registration Reach: free.

**1.2 Relevant identified uses of product and recommended uses**

Three-component epoxy resin to waterproof both with negative and positive pressure, to be used as osmotic over underground walls, to encapsulate rising dampness and to achieve a vapor barrier on wet supports.

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

Name of society: Diasen s.r.l.

Z.ind.le Berbentina, 5

60041 Sassoferrato An – Italia

Tel. +39 0732 9718

Fax +39 0732 971899

E-mail: reach@diasen.com

**1.4 Emergency telephone number**

Emergency telephone number of the company and / or official advisory body:

Diasen s.r.l. Tel. 0732/9718

Available outside working hours? No.

**SECTION 2: Hazard identification**

**2.1 Classification of the substance or mixture**

- Eye Irrit. 2  H 319
- Skin Sens. 1  H 317
- Skin Irrit. 2  H 315
- Dermal Acute Tox. 4  H 312
- Oral Acute Tox. 4  H 302
- Aquatic Chronic 3  H 412
2.2 Label elements

*Label according to the regulation (CE) n. 1272/2008 [CLP]*

**Hazard pictograms**

![Hazard pictogram](image)

**GHS07**

**Warning:**
Attention.

**Hazard statements:**
H 319
H 317
H 315
H 312
H 302
H 412

**Precautionary statements:**
P 264
P 337 + P 313
P 280
P 501

**Additional information about the dangers (EU):**

Contains: Fatty acids, C18-unsatd., Dimers, oligomeric reaction products with theta;
Fatty acids, C18-unsatd., Dimers, oligomeric reaction tofa theta-tepa;
N, N-dimethyl-1,3-diaminopropane.

2.3 Other hazards

Data not available.

Classification and labelling have been made on the basis of safety data sheets of raw materials that make up the product.
### SECTION 3: Composition/information on ingredients

#### 3.1 Substance
No pertinent. The product is a mixture.

#### 3.2 Mixture

**Hazardous Substance:**

<table>
<thead>
<tr>
<th>Registration number</th>
<th>CAS number</th>
<th>EC number</th>
<th>% [weight]</th>
<th>Name</th>
<th>Classification according to Regulation (EC) n.1272/2008 (CLP)</th>
<th>Hazard Statements (H Phrases)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Hazard Class and Category Code</td>
<td>Hazard Statisn ts (H Phrases)</td>
</tr>
<tr>
<td>68082-29-1</td>
<td>500-191-5</td>
<td>15-25</td>
<td>Fatty acids, C18-unsatd., dimers, oligomeric reaction products with teta</td>
<td>Eye Irrit. 2</td>
<td>H 319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2</td>
<td>H 315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1</td>
<td>H 317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 3</td>
<td>H 412</td>
</tr>
<tr>
<td>68155-17-9</td>
<td>268-945-3</td>
<td>5 -15</td>
<td>Fatty acids, tall-oil, reaction products with teta</td>
<td>Eye Irrit.2</td>
<td>H 319</td>
<td></td>
</tr>
<tr>
<td>68071-65-8</td>
<td>500-187-3</td>
<td>5 -15</td>
<td>Fatty acids, C18-unsatd., dimers, oligomeric reaction tofa teta-tepa</td>
<td>Eye Irrit. 2</td>
<td>H 319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2</td>
<td>H 315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1</td>
<td>H 317</td>
</tr>
<tr>
<td>01-211948684-27</td>
<td>109-55-7</td>
<td>203-680-9</td>
<td>0.5-2.5</td>
<td>N,N-dimethyl-1,3-diaminopropane</td>
<td>Flam. Liq. 3</td>
<td>H 226</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Dermal Acute Tox. 4</td>
<td>H 312</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oral Acute Tox. 4</td>
<td>H 302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1</td>
<td>H 317</td>
</tr>
</tbody>
</table>

**More information:**
For the full text of the H advice: see. SECTION 16

**Impurity:**
It does not contain impurities relevant for classification and labelling.
SECTION 4: First aid measures
4.1 Description of first aid measures
In case of inhalation
Ventilate the premises. Remove the patient from the contaminated premises to rest in the open air. If you feel unwell seek medical advice, showing this safety data sheet.
In case of contact with skin
Remove all traces of product and rinse with plenty of water the contaminated body surfaces. Remove contaminated clothing. If necessary seek medical advice, showing this safety data sheet. Wash all clothing and shoes before reuse.
In case of contact with eyes
Do not rub. Rinse immediately with plenty of running water, with eyelids open. In case of presence of contact lenses, remove them. If irritation persists, seek medical advice, showing this safety data sheet.
If swallowed
Do not induce vomiting. Never give anything by mouth to an unconscious person. Move exposed person to fresh air. Call a doctor immediately, showing this safety data sheet.

4.2 Most important symptoms and effects, both acute and delayed
No symptoms are observed both acute and delayed.

4.3 Indication of any immediate medical attention or special treatment
No specific treatment. Not to be no action taken involving any personal risk or without suitable training.

SECTION 5: Fire-fighting measures
5.1 Extinguishing
Extinguishing agents: water, CO₂. Use extinguishing measures appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing agents: no one in particular.

5.2 Special hazards arising from the substance
Dangers of the substance or mixture: Do not inhale combustion gases. Burning produces heavy smoke.
5.3 Advice for fire-fighters
Promptly isolate the scene by removing all persons from the vicinity of a fire. Not to be no action taken involving any personal risk or without suitable training. Fire-fighters must use a self-contained and full protective clothing. Use the means of extinction appropriate to local circumstances and particular environment. Fire water contaminated with this material must be contained and must prevent access to any waterway, sewer or drain.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel
Remove those who do not have appropriate protection and ensure adequate ventilation. Avoid contact with skin, eyes and clothing - wear the appropriate personal protective equipment (v. section 8). Avoid inhalation of vapours and mists - sufficient ventilation or wear protective equipment, wear suitable protective clothing (v. section 8).

6.1.2 For emergency responders
Remove people who do not wear any protective equipment and ensure adequate ventilation. Avoid contact with skin, eyes and clothing - wear suitable protective equipment (v. section 8). Avoid inhalation of vapours and mists - wear protective mask / protective device appropriate (v. section 8).

6.2 Environmental
Contain the spillage. Avoid that the product reaches uncontrollably water course or sewage system. In the event of any spillage into waterways, alert the Environment Agency or other body in charge of environmental protection.

6.3 Methods and materials for containment and cleaning up
Small quantities: collect spillage with absorbent material (sand, sawdust, universal absorbent, diatomaceous earth), pour in suitable containers and labelled with lids and dispose of according to local, national and EU regulations. Treat the washing water the same way as contaminated waste. If the spill happened indoors ventilate the room.

Big quantity: transfer the spilled material in a labelled container to recover the product or to dispose of it safely in accordance with local, national and EU regulations. Unless otherwise specified, treated as small quantities. If the spill occurred in an enclosed air the room.

6.4 Reference to other sections
For more detailed information on exposure controls / personal protection or disposal measures, see sections 8 and 13.
SECTION 7: Handling and storage
7.1 Precautions for safe handling
7.1.1 Protection measure
Avoid contact with skin, eyes and mucous membranes. Wear protective equipment for hands, eyes and skin (v. Section 8). Provide adequate ventilation. In case of insufficient ventilation, wear respiratory protection. Do not breathe vapours, aerosols or gases. Do not eat, drink and smoke in work areas. Wash hands after use and remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.1.2. Recommendations on general occupational hygiene
Avoid inhalation, ingestion and contact with skin and eyes. Wash hands after any handling. You must apply measures general hygienic measures to ensure the safe handling of the substance. These measures include good personal practices, regular cleaning of workplaces, do not drink, eat or smoke in the workplace. Take a shower and change clothes when you’re not working. Do not wear contaminated clothing at home. Wash them separately.

7.2 Conditions for safe storage, including any incompatibilities
The product should be stored in closed containers in ventilated places, well protected from the sun, water, freezing conditions at temperatures between + 5 °C and + 35 °C. Do not store near sources of ignition, open flames or excessive heat. Avoid store together with non-compatible materials that may give decomposition after contamination with the product.

Recommendations: Use original container.

7.3 Specific end use
Not applicable.

8. Exposure controls/personal protection
8.1 Control parameters
Exposure Limit Values:

<table>
<thead>
<tr>
<th>Component denomination</th>
<th>Exposition / effects</th>
<th>DNEL</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>tetraethylenepentamine</td>
<td>In the short term Dermal / Systemic</td>
<td>10 mg/kg</td>
<td>consumer</td>
</tr>
<tr>
<td></td>
<td>Long term Dermal / Systemic</td>
<td>0.74 mg/kg</td>
<td>worker</td>
</tr>
<tr>
<td></td>
<td>Long term Dermal / Systemic</td>
<td>0.32 mg/kg</td>
<td>consumer</td>
</tr>
<tr>
<td></td>
<td>Long term Oral/ Systemic</td>
<td>0.53 mg/kg</td>
<td>consumer</td>
</tr>
<tr>
<td></td>
<td>Long term Inhalation / Systemic</td>
<td>0.00129 mg/l</td>
<td>worker</td>
</tr>
<tr>
<td></td>
<td>Long term Inhalation / Systemic</td>
<td>0.00038 mg/l</td>
<td>consumer</td>
</tr>
<tr>
<td>triethylenetetramine</td>
<td>Long term Dermal / Systemic</td>
<td>0.57 mg/kg</td>
<td>worker</td>
</tr>
</tbody>
</table>
Long term Dermal / Systemic 0.25 mg/kg consumer  
Long term Inhalation / Systemic 0.001 mg/l worker  
Long term Inhalation / Systemic 0.00029 mg/l consumer  
In the short term Dermal / Systemic 8 mg/kg consumer  
Long term Oral/ Systemic 0.41 mg/kg consumer  

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Compartment Detail</th>
<th>PNEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>tetraethylenepentamine</td>
<td>freshwater</td>
<td>0.00068 mg/l</td>
</tr>
<tr>
<td></td>
<td>Sea water</td>
<td>0.00068 mg/l</td>
</tr>
<tr>
<td></td>
<td>Sediment freshwater</td>
<td>3.34 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Sediment seawater</td>
<td>0.343 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Ground</td>
<td>0.683 mg/kg</td>
</tr>
<tr>
<td>triethylenetetramine</td>
<td>freshwater</td>
<td>0.19 mg/l</td>
</tr>
<tr>
<td></td>
<td>Sea water</td>
<td>0.038 mg/l</td>
</tr>
<tr>
<td></td>
<td>Sediment freshwater</td>
<td>95.5 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Sediment seawater</td>
<td>19.2 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Ground</td>
<td>19.1 mg/kg</td>
</tr>
</tbody>
</table>

For the equivalent limits in other countries, consult a competent occupational hygienist or the institution of field.

**8.2 Exposure controls**
To limit potential exposure, prevent the generation of vapour or aerosol. In addition, it is recommended to wear protective equipment. Wear protection devices for the eyes unless the potential contact with the eye can be excluded by the nature and the type of application.

**8.2.1 Appropriate engineering controls**
If the use of the product creates fumes, use local exhaust ventilation or other technical means to keep exposure below recommended exposure limits.

**8.2.2 Individual protection measures, such as personal protective equipment**

**8.2.2.1 Eye / face**
Do not use contact lenses. Use tight-fitting goggles or mask type conform to EN 166. Use an eye protection compatible with the system used for the protection of the respiratory tract. It is also recommended that you bring the individual pocket eyewash.

**8.2.2.2 Skin protection**
Wear suitable protective gloves (PVC gloves, neoprene or rubber), in accordance with UNI EN 374 parts 1 and 2. It should be borne in mind that, because of several factors (for example temperature),
the duration of a glove for protection against chemical agents may be considerably lower than the permeation time detected by the test. Change protective gloves used in the presence of signs of wear or contamination. Wear protective standards that cover the entire surface of the skin, long pants, long-sleeved suit, adhering to the end and safety boots resistant to chemical attack without holes for the laces.

8.2.2.3 Respiratory protection
Not necessary for normal use. If it exceeds the occupational exposure limit wear a device for respiratory protection meeting the requirements of European or national legislation.

8.2.2.4 Thermal risks
No risk.

8.2.3 Environmental exposure controls
Contain the spillage. In the event of any spillage into waterways, alert the Environment Agency or other body in charge of environmental protection.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical
Appearance: Liquid
Colour: amber
Smell: ammonia
Odour threshold: Not determined.
Specific weight: 0.92 kg/l.
Melting point / freezing point: not determined
Initial boiling point and boiling range: > 124 °C
Flash point: 82 °C
Evaporation rate: not determined
Flammability: not determined
Upper / lower flammability or explosive limits: not determined
Vapour pressure: not determined
Vapour density: not determined
Relative density: 0.97/cm³
Solubility: Soluble in water
Coefficient of n-octanol / water: not determined
Ignition temperature: not applicable
Decomposition temperature: not applicable
Viscosity: not determined
 Explosive properties: not determined
 Oxidizing properties: not determined

Note: the above values related to physicochemical properties are typical values for this product and should not, therefore, be construed as a specification.
9.2 Other information
No data available.

SECTION 10: Stability and reactivity
10.1 Reactivity
The product is stable at room temperature and under normal conditions of use and storage.

10.2 Chemical stability
The product is stable at room temperature and under normal conditions of use and storage.

10.3 Possibility of hazardous reactions
It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), agents strong reducing.
It may generate toxic gases on contact with oxidising mineral acids, strong oxidizing agents.
It can catch fire on contact with powerful oxidising agents.

10.4 Conditions to avoid
The product is stable at room temperature and under normal conditions of use and storage.

10.5 Incompatible materials
None in particular.

10.6 Hazardous decomposition products
It does not generate decomposition products in normal conditions of storage and use.

SECTION 11: Identification of the substance or mixture and company
11.1 Information toxicity effects
In the absence of experimental toxicological data on the product itself, the potential risks of the product to health were evaluated based on the properties of substances, according to the criteria laid down by the relevant regulations for the classification. Consider, therefore, the concentration of each substance dangerous possibly mentioned in sect. 3, to assess the toxicological effects resulting from exposure to the product.

Toxicological information of the mixture: No data available.
Toxicological information of the main substances in the mixture:

### Acute toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>Specification</th>
<th>assumption</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, C18-unsatd., dimers, oligomeric reaction products with teta</td>
<td>LD50</td>
<td>Oral</td>
<td></td>
<td>&gt; 1600 mg/kg</td>
</tr>
<tr>
<td>Fatty acids, C18-unsatd., dimers, oligomeric reaction tofa teta-tepa</td>
<td>LD50</td>
<td>Oral</td>
<td>Rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>N,N-dimethyl-1,3-diaminopropane - CAS: 109-55-7</td>
<td>LD50</td>
<td>Oral</td>
<td>Rat</td>
<td>922 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50</td>
<td>Inhalation</td>
<td>Rat (4h)</td>
<td>&gt; 4.31 mg/l</td>
</tr>
</tbody>
</table>

### Corrosion / irritation

<table>
<thead>
<tr>
<th>Substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, C18-unsatd., dimers, oligomeric reaction tofa teta-tepa</td>
<td>Skin irritation.</td>
</tr>
</tbody>
</table>

### Eye irritation or serious eye damage

<table>
<thead>
<tr>
<th>Substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, C18-unsatd., dimers, oligomeric reaction tofa teta-tepa</td>
<td>Corrosive to eyes.</td>
</tr>
</tbody>
</table>

### Respiratory Sensitization

<table>
<thead>
<tr>
<th>Substance</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, C18-unsatd., dimers, oligomeric reaction tofa teta-tepa</td>
<td>Irritating to respiratory system.</td>
</tr>
</tbody>
</table>

Unless otherwise specified, the other information required in Regulation 453/2010 / EC are to be understood as not applicable.

The product was not tested. The data reported in this paragraph are based on the information contained in safety data sheets of raw materials that make up the product.

---

12. SECTION: Ecological Information

12.1 Toxicity

In the absence of experimental toxicological data on the product itself, the potential risks of the product to health were evaluated based on the properties of substances, according to the criteria laid down by the relevant regulations for the classification. Consider, therefore, the concentration of each substance dangerous possibly mentioned in section 3, to assess the toxicological effects resulting from exposure to the product.
### Substance Specification

<table>
<thead>
<tr>
<th>Substance</th>
<th>Specification</th>
<th>Assumption</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, C18-unsatd., dimers, oligomeric reaction products with teta</td>
<td>LC50</td>
<td>Fish</td>
<td>1-10 mg/l</td>
<td>96 h</td>
</tr>
<tr>
<td></td>
<td>LC50</td>
<td>microorganisms</td>
<td></td>
<td>120 mg/l</td>
</tr>
<tr>
<td>N,N-dimethyl-1,3-diaminopropane</td>
<td>LC 50</td>
<td>Fish</td>
<td>122 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC 50</td>
<td>Daphnia</td>
<td>59.5 mg/l</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td>EC 50</td>
<td>Algae</td>
<td>53.5 mg/l</td>
<td>72 h</td>
</tr>
<tr>
<td></td>
<td>EC 10</td>
<td>bacteria (Pseudomonas putrid)</td>
<td>69.5 mg/l</td>
<td>17 h</td>
</tr>
</tbody>
</table>

### General effect

Data not available.

#### 12.2 Persistence and degradability

The product is not readily degradable.

**Disposal considerations:** Data not available.
Do not pour the product in the pipeline and water course, if the product has escaped into a water course, into the drainage system or has contaminated the ground or vegetation, notify the competent authorities.

#### 12.3 Potential for bioaccumulation

The product is not bioaccumulative.

#### 12.4 Mobility in soil

The product is not mobile in soil.

Assessment transport between environmental compartments: No data available.

#### 12.5 Results of evaluations on the PBT or vPvB

According to information on substances, it was found that the mixture does not meet the criteria for PBT / vPvB.

#### 12.6 Other adverse effects

No data available.

#### 12.7 Additional information

Absorbable organic halogen compounds (AOX): No data available.

The product was not tested. The data reported in this paragraph are based on the information contained in safety data sheets of raw materials that make up the product.
13. SECTION: Disposal consideration

13.1 Waste treatment methods
Recover if possible. Dispose of in accordance with local and national regulations.

Packaging: The packaging used is intended for the packaging of this product, it should not be reused for other purposes. All containers, even when completely empty, must not be disposed of properly and must undergo a proper decontamination treatment before starting their disposal. If they contain residues must be classified, stored and sent to a suitable treatment facility in accordance with applicable local, national and Community.

SECTION 14: Transport information

The product is classified as non-hazardous for transport (ADR for road, RID for railway, ADN for internal naval transport, IMDG / GGVSea for sea and ICAO / AITA air transport).

14.1 ONU number
Not regulated.

Proper Shipping Name 14.2 for UN
Not regulated.

14.3 Hazard class for transport
Classification product as non-hazardous for transport.

14.4 Packing Group
Not regulated.

14.5 Environmental hazards
Classification product as non-hazardous for transport.

14.6 Special precautions for users
No data available.

14.7 Transport of the product in accordance with the MARPOL73 / 78 and the IBC Code
Not applicable.

Transportation classifications may vary according to the different national laws.
SECTION 15: Regulatory information
15.1 Regulations / legislation on safety, health and environment specific to the product
Community regulations
- Directive 67/548 / EEC and subsequent amendments (classification, packaging and labelling of dangerous substances)
- Regulation EC / 1907/2006 and subsequent amendments (Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH))
- Regulation EC / 1272/2008 (classification, labelling and packaging of substances and mixtures)

National regulation:
- Legislative Decree 81/08 and subsequent amendments (implementation of art. 1 of the Law 3/8/2007, concerning the protection of health and safety in the workplace)

15.2 Chemical Safety Assessment (CSA)
Not required. Exempt from REACH registration

SECTION 16: Other information
Full text of abbreviated H statements
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H317 May cause an allergic skin reaction
- H312 Harmful in contact with skin
- H302 Harmful if swallowed.
- H412 Harmful to aquatic life with long lasting effects

Classification and procedure used to derive under Regulation (IS) 1272/2008 [CLP] in relation to the mixtures:

<table>
<thead>
<tr>
<th>Classification in accordance with Regulation (CE) n. 1272/2008</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2</td>
<td>H 319</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>H 317</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>H 315</td>
</tr>
<tr>
<td>Dermal Acute Tox. 4</td>
<td>H 312</td>
</tr>
<tr>
<td>Oral Acute Tox. 4</td>
<td>H 302</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>H 412</td>
</tr>
</tbody>
</table>
Abbreviations and acronyms

EC<sub>50</sub>: median effective concentration.
LC<sub>50</sub>: median lethal concentration.
LD<sub>50</sub>: median lethal dose.
NOEC: no observable effect concentration.
PNEC: predicted no-effect concentration.
OEL: occupational exposure limit.
PBt: persistent, bio accumulative, toxic chemical.
vPvB: very persistent, very bioaccumulative chemical.
STEL: short-term exposure limit.
TWA: time weighted average.
OIM: International Maritime Organization.
IMDG: International Maritime Dangerous Goods.
IATA: International Air Transport Association.
ADR/RID: Agreement on road transport of dangerous good / regulations of the international transport of dangerous goods by rail.
SCOEL: Scientific Committee on Occupational Exposure Limits.
CSAH: Comité Scientifique en matière d’Alimentation Humaine.

Key literature references and sources of data

The Merck Index Ed. 10;
Handling Chemical Safety;
Anonym, 2008: Recommendation from the Scientific Committee on Occupational Exposure Limits for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)<sub>2</sub>), Directorate General for Employment, Social Affairs and Equal Opportunities of the European Commission, SCOEL/SUM/137 february 2008.
Bureau Européen des substances Chimiques (ECB)
CIRC (Centre International de Recherche sur le Cancer)
HSDB (Hazardous Substances Data Bank) (National Library of Medicine).
INRS (Institut National de Recherche et de Sécurité).
IUCLID (International Uniform Chemical Information data Base).
RTECS (Registry of Toxic effects of Chemical Substances).
National Institute of Health - National inventory chemicals.
**Release:** This safety data sheet (SDS) is based on the legal provisions contained in the REACH Regulation (EC / 1907/2006), as amended and supplemented. The information contained herein is based on information in the MSDS of the raw materials that make up the product and our knowledge of the date indicated. They refer solely to the product indicated and constitutes no guarantee of particular quality. Is not, no representation or warranty as to the accuracy, reliability and completeness of the data contained in this MSDS. The company assumes no liability for damage to persons or property that may result from use of the product other than that for which it was intended. The SDS does not replace but complements the lyrics or the rules governing the activities of the use. The user has full responsibility for the precautions that are necessary for the use you make of the preparation. This MSDS cancels and replaces any preceding release.

Indications of the changes made to the previous version of the SDS: review of the entire document.

This SDS is available in electronic form on the: [www.diasen.com](http://www.diasen.com).

Last version 0005 of 4 May 2015.

Denomination: WATstop BLACK COLOR (part C)
N° of registration Reach: free.

1.3 Relevant identified uses of product and recommended uses
Three-component epoxy resin to waterproof both with negative and positive pressure, to be used as osmotic over underground walls, to encapsulate rising dampness and to achieve a vapor barrier on wet supports.

1.3 Details of the supplier of the safety data sheet
Name of society: Diasen s.r.l.
Z.ind.le Berbentina, 5
60041 Sassoferrato – An – Italia
Tel. +39 0732 9718
Fax +39 0732 971899
E-mail: reach@diasen.com

1.5 Emergency telephone number
Emergency telephone number of the company and / or official advisory body:
Diasen s.r.l. Tel. 0732/9718
Available outside working hours? No.

SECTION 2: Hazards identification
2.1 Classification of the substance or mixture
This product does not meet the criteria for classification in any hazard class in accordance with Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.2 Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms: None.
Warning: no.
Hazard: None.
Safety advice: none.

Additional information about the dangers (EU): none.

The product declared by the supplier does not require the addition of the reducing agent of chromium (VI), as the concentration is less than 0.0002% (2 ppm) on the total dry weight of the
same. The statement is supported by tests carried out in the laboratories of the supplier and certified on the contents of chromium (VI), constantly updated by an independent.

2.3 Other hazards
Data not available.

Classification and labelling have been made on the basis of safety data sheets of raw materials that make up the product.

SECTION 3: Composition / information on ingredients

3.1 Substances
Not applicable. The product is a mixture.

3.2 Mixture
No dangerous substances:

<table>
<thead>
<tr>
<th>Number of registration (CE)</th>
<th>Number CAS</th>
<th>Number CE</th>
<th>% weight</th>
<th>Name</th>
<th>Classification according to Regulation (CE) n.1272/2008 (CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>65997-16-2</td>
<td>266-045-5</td>
<td>90-100</td>
<td>Cement, alumina, chemicals</td>
<td>None</td>
</tr>
</tbody>
</table>

Hazardous substances:
It does not contain soluble chromium VI (in excess of 2 ppm) or crystalline silicon. This product contains no dangerous components.

Additional information: None.
For the full text of the H advice: see. SECTION 16.

Impurities:
It does not contain impurities relevant for classification and labelling.

SECTION 4: First aid measures

4.1 Description of first aid measures
In case of inhalation
Ventilate the area. Remove the patient from the contaminated premises to rest in the open air. If you feel unwell seek medical advice, showing this safety data sheet.
In case of contact with skin
Remove all traces of the product with water and soap and rinse the contaminated body surfaces. Remove contaminated clothing.

In case of contact with eyes
Rinse immediately with plenty of running water, with eyelids open. In case of presence of contact lenses, remove them. If irritation persists, seek medical advice, showing this safety data sheet.

If swallowed
Do not induce vomiting. Rinse mouth and drink 2-3 glasses of water. Move exposed person to fresh air. Call a doctor immediately, showing this safety data sheet.

4.2 Most important symptoms and effects, both acute and delayed
No symptoms are observed both acute and delayed.

4.3 Indication of any immediate medical attention or special treatment
No specific treatment. Not to be no action taken involving any personal risk or without suitable training.

SECTION 5: Fire-fighting measures

5.1 Extinguishing
Suitable extinguishing media: no one in particular. Use extinguishing measures appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing agents: no one in particular.

5.2 Special hazards arising from the substance
Dangers of the substance or mixture: Do not inhale combustion gases.

5.3 Advice for fire-fighters
Promptly isolate the scene by removing all persons from the vicinity of a fire. Not to be no action taken involving any personal risk or without suitable training. Fire-fighters must use a self-contained and full protective clothing. Use the means of extinction appropriate to local circumstances and particular environment. Fire water contaminated with this material must be contained and must prevent access to any waterway, sewer or drain.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel
Remove those who do not have appropriate protection and ensure adequate ventilation. Avoid contact with skin, eyes and clothing - wear the appropriate personal protective equipment (section 8). Avoid inhalation of dust or aerosols - sufficient ventilation or wear protective equipment, wear suitable protective clothing (section 8).

6.1.2 For emergency responders
Remove people who do not wear any protective equipment and ensure adequate ventilation. Avoid contact with skin, eyes and clothing - wear suitable protective equipment (section 8). Avoid inhalation of dust or aerosols - wear protective mask / protective device appropriate (section 8).

6.2 Environmental
Contain the spillage. Avoid that the product reaches uncontrollably water course or sewage system. In the event of any spillage into waterways, alert the Environment Agency or other body in charge of environmental protection.

6.3 Methods and materials for containment and cleaning up
Small quantities: collect spillage with vacuum dry and place in appropriate containers and labelled with lids and dispose of according to local, national and EU regulations. Treat the washing water the same way as contaminated waste. If the spill happened indoors ventilate the room. Not disperse dust into the environment.

Big quantities: transfer the spilled material in a labelled container to recover the product or to dispose of it safely in accordance with local, national and EU regulations. Unless otherwise specified, treated as small quantities. If the spill occurred in an enclosed air the room. Not disperse dust into the environment.

6.4 Reference to other sections
For more detailed information on exposure controls / personal protection or disposal measures, see sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 Protective Measures
Avoid contact with skin, eyes and mucous membranes. Wear protective equipment for hands, eyes and skin (v.section 8). Provide adequate ventilation. In case of insufficient ventilation, wear
respiratory protection. Do not breathe dust or aerosols. Do not eat, drink and smoke in work areas. Wash hands after use and remove contaminated clothing and protective equipment before entering areas in which food is consumed.

**7.1.2. Recommendations on general occupational hygiene**
Avoid inhalation, ingestion and contact with skin and eyes. Wash hands after any handling. You must apply measures general hygienic measures to ensure the safe handling of the substance. These measures include good personal practices, regular cleaning of workplaces, do not drink, eat or smoke in the workplace.
Take a shower and change clothes when you're not working. Do not wear contaminated clothing at home. Wash them separately.

**7.2 Conditions for safe storage, including any incompatibilities**
The product should be stored in closed containers in ventilated places, well protected from the sun, water, freezing conditions at temperatures between + 5 °C and + 35 °C.
Do not store near sources of ignition, open flames or excessive heat. Avoid store together with non-compatible materials that may give decomposition after contamination with dust.

**Recommendations:** Use original container.

**7.3 Specific end use**
Not applicable.

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**SECTION 8: Exposure controls / personal protection**

**8.1 Control parameters**
No data available.

**8.2 Exposure controls**
In order to minimize the potential exposure, avoid the generation of dust.
In addition, it is recommended to wear protective equipment.
Wear protection devices for the eyes unless the potential contact with the eye can be excluded by the nature and the type of application.

**8.2.1 Appropriate engineering controls**
If the use of the product creates dust, use local exhaust ventilation or other technical means.

**8.2.2 Individual protection measures, such as personal protective equipment**
**8.2.2.1 Eye / face**
Do not use contact lenses.
Use protective goggles dust conform to EN 166.
Use an eye protection compatible with the system used for the protection of the respiratory tract. It is also recommended that you bring the individual pocket eyewash.
8.2.2.2 Skin protection
Wear suitable protective gloves, conforming to UNI EN 374 parts 1 and 2. It should be borne in mind that, because of several factors (for example temperature), the duration of a glove for protection against chemical agents may be considerably lower than the permeation time detected by the test. Change protective gloves used in the presence of signs of wear or contamination.
Wear protective standards that cover the entire surface of the skin, long pants, long-sleeved suit, adhering to the end and safety boots resistant to chemical attack without holes for the laces.

8.2.2.3 Respiratory protection
Not necessary for normal use. If excessive dust wear a device for respiratory protection meeting the requirements of European or national legislation.

8.2.2.4 Thermal hazards
Nobody.

8.2.3 Environmental exposure controls
Contain the spillage. In the event of any spillage into waterways, alert the Environment Agency or other body in charge of environmental protection.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical

- Appearance: powder
- Colour: gray - brown
- Odour: none
- Odour Threshold: none
- Specific weight: 1.5 kg / l
- Melting point: > 1200 ° C
- Initial boiling point and boiling range: not applicable
- Flash point: not applicable
- Evaporation rate: not determined
- Flammability: not determined
- Upper / lower flammability or explosive limits: not determined
- Vapour pressure: not determined
- Vapour density: not determined
- Solubility: Soluble in water
- Coefficient of n-octanol / water: not determined
- Ignition temperature: not applicable
- Decomposition temperature: not applicable
- Viscosity: not applicable
- Explosive properties: not applicable
- Oxidising properties: not applicable
Note: the above values related to physicochemical properties are typical values for this product and should not, therefore, be construed as a specification.

9.2 Other information
No data available.

SECTION 10: Stability and reactivity
10.1 Reactivity
The product is stable at room temperature and under normal conditions of use and storage.

10.2 Chemical stability
The product is stable at room temperature and under normal conditions of use and storage.

10.3 Possibility of hazardous reactions
In contact with water, it produces alkaline substances.

10.4 Conditions to avoid
The product is stable at room temperature and under normal conditions of use and storage.

10.5 Incompatible materials
None in particular.

10.6 Hazardous decomposition products
It does not generate decomposition products in normal conditions of storage and use.

SECTION 11: Toxicological information
11.1 Information on toxicological effects
Toxicological information of the product:
Health effects: prolonged exposure can aggravate pre-existing conditions (skin, lung, eye and respiratory tract).

The product was not tested. The data reported in this paragraph are based on the information contained in safety data sheets of raw materials that make up the product.

SECTION 12: Ecological information
12.1 Toxicity
No known ecological damage caused by this product.

12.2 Persistence and degradability
Do not pour the product in the pipeline and water course, if the product has escaped into a water course, into the drainage system or has contaminated the ground or vegetation, notify the competent authorities.
12.3 Potential for bioaccumulation
No data available.

12.4 Mobility in soil
No data available.
Assessment transport between environmental compartments: No data available.

12.5 Results of evaluations on the PBT or vPvB
According to information on substances, it was found that the mixture does not meet the criteria for PBT / vPvB.

12.6 Other adverse effects
No data available.

12.7 Additional information
Absorbable organic halogen compounds (AOX): No data available.
The product was not tested. The data reported in this paragraph are based on the information contained in safety data sheets of raw materials that make up the product.

SECTION 13: Disposal considerations
13.1 Methods of waste treatment
Recover if possible. Dispose of in accordance with local and national regulations.

Packaging: The packaging used is intended for the packaging of this product, it should not be reused for other purposes. All containers, even when completely empty, must not be disposed of properly and must undergo a proper decontamination treatment before starting their disposal. If they contain residues must be classified, stored and sent to a suitable treatment facility in accordance with applicable local, national and Community.

SECTION 14: Transport information
The product is classified as non-hazardous for transport (ADR for road, RID for railway, ADN for internal naval transport, IMDG / GGVSea for sea and ICAO / AITA air transport).

14.1 ONU number
Not regulated.

14.2 Proper Shipping Name for ONU
Not regulated.

14.3 Hazard class for transport
Product classified as non-hazardous for transport.
14.4 Packing Group
Not regulated.

14.5 Environmental hazards
Product classified as non-hazardous for transport.

14.6 Special precautions for users
No data available.

14.7 Transport of the product in accordance with the MARPOL73 / 78 and the IBC Code
Not applicable.

Transportation classifications may vary according to the different national laws.

SECTION 15: Regulatory information
15.1 Regulations / legislation on safety, health and environment specific to the product
Regulation EC / 1272/2008 (classification, labelling and packaging of substances and mixtures).

Nationals regulations: D.P.R. 1124/65 (consolidated law for compulsory insurance against accidents at work and occupational diseases:
Leg. 152/06 and subsequent amendments (environmental standards)
D.Lgs 81/08 and subsequent amendments (implementation of art. 1 of the Law 3/8/2007, concerning the protection of health and safety in the workplace)

15.2 Chemical Safety Assessment (CSA)
Not required. Exempt from REACH registration.

SECTION 16: Other information
Full text of abbreviated H statements
No.
Full text of the safety advice
None.

Classification and procedure used to derive under Regulation (IS) 1272/2008 [CLP] in relation to the mixtures

<table>
<thead>
<tr>
<th>Classification in accordance with Regulation (CE) n. 1272/2008</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td>Minimum classification.</td>
</tr>
</tbody>
</table>

Abbreviations and acronyms
EC<sub>50</sub>: median effective concentration.
LC<sub>50</sub>: median lethal concentration.
LD<sub>50</sub>: median lethal dose.
NOEC: no observable effect concentration.
PNEC: predicted no-effect concentration.
OEL: occupational exposure limit.
PBT: persistent, bioaccumulative, toxic chemical.
vPvB: very persistent, very bioaccumulative.
STEL: short-term exposure limit.
TWA: time weighted average.
OIM: International Maritime Organization.
IMDG: International Maritime Dangerous Goods.
IATA: International Air Transport Association.
ADR/RID: Agreement on road transport of dangerous good / regulations of the international transport of dangerous goods by rail.
SCOEL: Scientific Committee on Occupational Exposure Limits.
CSAH: Comité Scientifique en matière d’Alimentation Humaine.

Key literature references and sources of data
The Merck Index Ed. 10;
Handling Chemical Safety;
Anonym, 2008: Recommendation from the Scientific Committee on Occupational Exposure Limits for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)<sub>2</sub>), Directorate General for Employment, Social Affairs and Equal Opportunities of the European Commission,
SCOEL/SUM/137 February 2008.
Bureau Européen des substances Chimiques (ECB)
CIRC (Centre International de Recherche sur le Cancer).
Release:
This safety data sheet (SDS) is based on the legal provisions contained in the REACH Regulation (EC / 1907/2006), as amended and supplemented. The information contained herein is based on information in the MSDS of the raw materials that make up the product and our knowledge of the date indicated. They refer solely to the product indicated and constitutes no guarantee of particular quality. Is not, no representation or warranty as to the accuracy, reliability and completeness of the data contained in this MSDS. The company assumes no liability for damage to persons or property that may result from use of the product other than that for which it was intended. The SDS does not replace but complements the lyrics or the rules governing the activities of the use. The user has full responsibility for the precautions that are necessary for the use you make of the preparation. This MSDS cancels and replaces any preceding release.

Indications of the changes made to the previous version of the SDS: review of the entire document.

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