



DANOPRIMER EPS COMP.B



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**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 **PRODUCT IDENTIFIER:** DANOPRIMER EPS COMP.B
- 1.2 **RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:**  
Intended uses (main technical functions): [X] Industrial [X] Professional [ ] Consumers  
 Component of epoxy primer.  
Uses advised against:  
 This product is not recommended for any use or sector of use (industrial, professional or consumer) other than those previously listed as 'Intended or identified uses'.  
Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:  
 Not restricted.
- 1.3 **DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:**  
**DANOSA - DERIVADOS ASFÁLTICOS NORMALIZADOS, S.A.**  
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 DANOSA PORTUGAL - Zona Industrial da Zicofa, Rua da Sismaria, Lote 12. 2415-809 Leiria - Tel. (+351) 244 843 110
- 1.4 **EMERGENCY TELEPHONE NUMBER:** +34 902 422 452 (8:30-17:30 h.) (working hours)

**SECTION 2 : HAZARDS IDENTIFICATION**

- 2.1 **CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:**  
 Classification of mixtures is carried out in accordance with the following principles: a) when data (tests) for the classification of mixtures are available, generally is carried out based on these data, b) in the absence of data (tests) for mixtures are generally used interpolation or extrapolation methods of assessing the risk, using the available data for mixtures similarly classified, and c) in the absence of tests and information which would allow to apply interpolation or extrapolation techniques, methods are used to classify risk assessment based on the data of the individual components in the mixture.  
  
Classification in accordance with Regulation (EU) No. 1272/2008~2018/1480 (CLP):  
 DANGER: Skin Corr. 1B:H314 | Eye Dam. 1:H318 | Skin Sens. 1:H317 | Aquatic Chronic 3:H412 | EUH071
- | Danger class                              | Classification of the mixture                              | Cat.           | Routes of exposure       | Target organs          | Effects                             |
|---|--|----------------|--------------------------|------------------------|-------------------------------------|
| <u>Physicochemical:</u><br>Not classified | Skin Corr. 1B:H314<br>Eye Dam. 1:H318<br>Skin Sens. 1:H317 | c)<br>c)<br>c) | Cat.1B<br>Cat.1<br>Cat.1 | Skin<br>Eyes<br>Skin   | Burns<br>Serious lesions<br>Allergy |
| <u>Human health:</u><br>                  | Aquatic Chronic 3:H412<br>EUH071                           | c)<br>c)       | Cat.3<br>-               | -<br>Respiratory tract | -<br>Corrosion                      |
| <u>Environment:</u>                       |  |                |                          |                        |                                     |

Full text of hazard statements mentioned is indicated in section 16.

Note: When in section 3 a range of percentages is used, the health and environmental hazards describe the effects of the highest concentration of each component, but below the maximum value.

- 2.2 **LABEL ELEMENTS:**  

 This product is labelled with the signal word DANGER in accordance with Regulation (EU) No. 1272/2008~2018/1480 (CLP)
- Hazard statements:  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H412 Harmful to aquatic life with long lasting effects.  
 EUH071 Corrosive to the respiratory tract.
- Precautionary statements:  
 P102-P405 Keep out of reach of children. Store locked up.  
 P280F Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory protection.  
 P363 Wash contaminated clothing before reuse.  
 P301+P330+P331-P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.  
 P303+P361+P353-P352-P312 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P305+P351+P338-P310 Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell.  
 P273-P501a IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.  
 Avoid release to the environment. Dispose of contents/container in accordance with local regulations.
- Supplementary statements:  
 None.

**SAFETY DATA SHEET (REACH)**

In accordance with Regulation (EC) No. 1907/2006 and Regulation (EU) No. 2015/830

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Substances that contribute to classification:Cycloaliphatic amine-epoxy adduct  
m-phenylenebis(methylamine)

2.3

OTHER HAZARDS:

Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:

Other physicochemical hazards: Vapours may form with air a mixture potentially flammable or explosive.Other adverse human health effects: Prolonged exposure to vapours may produce transient drowsiness. Prolonged contact may cause skin dryness.Other negative environmental effects: # Does not contain substances that fulfil the PBT/vPvB criteria.**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

3.1

SUBSTANCES:

Not applicable (mixture).

3.2

MIXTURES:

This product is a mixture.

Chemical description:

Resins dissolution.

INGREDIENTS:

40 &lt; 50 %

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



CAS: 38294-64-3 , EC: 500-101-4

CLP: Danger: Skin Corr. 1B:H314 | Eye Dam. 1:H318 | Skin Sens. 1:H317 |

Aquatic Chronic 3:H412

Autoclassified  
< REACH

30 &lt; 40 %

Benzyl alcohol



CAS: 100-51-6 , EC: 202-859-9

CLP: Warning: Acute Tox. (inh.) 4:H332 | Acute Tox. (oral) 4:H302 | Eye Irrit.

2:H319

Index No. 603-057-00-5  
< Autoclassified

15 &lt; 20 %

m-phenylenebis(methylamine)



CAS: 1477-55-0 , EC: 216-032-5

CLP: Danger: Acute Tox. (inh.) 4:H332 | Acute Tox. (oral) 4:H302 | Skin Corr.

1B:H314 | Skin Sens. 1B:H317 | Aquatic Chronic 3:H412 | EUH071

Autoclassified  
< REACHImpurities:

Does not contain other components or impurities which will influence the classification of the product.

Stabilizers:

None

Reference to other sections:

For more information on hazardous ingredients, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):

# List updated by ECHA on 16/01/2020.

Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:

None

Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:

None

PERSISTENT, BIOACCUMULABLE AND TOXIC PBT, OR VERY PERSISTENT AND VERY BIOACCUMULABLE VPVB SUBSTANCES:

Does not contain substances that fulfil the PBT/vPvB criteria.



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**SECTION 4 : FIRST AID MEASURES****4.1 DESCRIPTION OF FIRST-AID MEASURES:**

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Lifeguards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
<u>Inhalation:</u> 	Inhalation of solvent vapours may produce headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness. Inhalation produces burning sensation, coughing, breathlessness and sore throat.	Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
<u>Skin:</u> 	Skin contact causes redness, burns and pain. Prolonged contact may cause skin dryness.	<i>* Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. In the case of skin reddening or rashes, contact a doctor immediately.</i>
<u>Eyes:</u> 	<i>* Contact with the eyes produces redness, pain, serious burns and loss of vision.</i>	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.
<u>Ingestion:</u>	If swallowed, causes severe burns on the lips, mouth, throat and oesophagus, with gastric disorders and abdominal pain.	If swallowed, seek immediate medical attention. Drink large quantities of water. Do not induce vomiting, due to the risk of perforation. Keep the patient at rest.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:**

The main symptoms and effects are indicated in sections 4.1 and 11.1

**4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**

Notes to physician: Treatment should be directed at the control of symptoms and the clinical condition of the patient.  
Antidotes and contraindications: Specific antidote not known.

**SECTION 5 : FIRE-FIGHTING MEASURES**

- 5.1 EXTINGUISHING MEDIA:**  
Extinguishing powder or CO<sub>2</sub>. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet. Direct water jet may not be effective to extinguish the fire, since the fire may spread.
- 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:**  
As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, nitrogen oxides. Exposure to combustion or decomposition products may be a hazard to health.
- 5.3 ADVICE FOR FIREFIGHTERS:**  
Special protective equipment: Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or is not being used, combat fire from a sheltered position or from a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.  
Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

- 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**  
Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours. Keep people without protection in opposition to the wind direction.
- 6.2 ENVIRONMENTAL PRECAUTIONS:**  
Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.
- 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:**  
Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc.). Clean preferably with a biodegradable detergent. Keep the remains in a closed container.
- 6.4 REFERENCE TO OTHER SECTIONS:**  
For contact information in case of emergency, see section 1.  
For information on safe handling, see section 7.  
For exposure controls and personal protection measures, see section 8.  
For waste disposal, follow the recommendations in section 13.



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## SECTION 7 : HANDLING AND STORAGE

- 7.1** PRECAUTIONS FOR SAFE HANDLING:  
 Comply with the existing legislation on health and safety at work.  
General recommendations:  
 Use in areas free from sources of ignition and away from heat or electrical sources. Do not smoke. Handle with care, avoiding any discharge. Avoid any type of leakage or escape. Keep the container tightly closed.  
Recommendations for the prevention of fire and explosion risks:  
 Vapours are heavier than air, may spread along floors to a considerable distance, can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. No tools with a potential for sparks should be used.  
Recommendations for the prevention of toxicological risks:  
 Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.  
Recommendations for the prevention of environmental contamination:  
 Avoid any spillage in the environment. Pay special attention to the cleaning water. In the case of accidental spillage, follow the instructions indicated in section 6.
- 7.2** CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:  
 Forbid the entry to unauthorized persons. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. Avoid extreme humidity conditions. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. Due to its corrosive properties, extreme precaution in the selection of materials for pumps, packages and lines should be taken. The floor must be waterproof and corrosion resistant, with a canal system allowing the liquid to be channelled towards a neutralising pit. The electrical equipment must be made of non-corrodible materials. For more information, see section 10.  
Class of storage : # According to current legislation.  
Maximum storage period : 24. months  
Temperature interval : min: 10. °C, max: 30. °C (recommended).  
Incompatible materials:  
 # Keep away from reducing agents, oxidizing agents, acids, alkalis.  
Type of packaging:  
 According to current legislation.  
Limit quantity (Seveso III): Directive 2012/18/EU:  
 - Named dangerous substances/mixtures: None  
 - Hazard categories and lower-/upperthreshold quantities in tonnes (t):  
 · Physical hazards: Not applicable.  
 · Health hazards: Not applicable  
 · Environmental hazards: Not applicable  
 · Other hazards: Corrosive to the respiratory tract (O5) (50t/200t).  
 - Threshold quantity for the application of lower-tier requirements: 50 tons  
 - Threshold quantity for the application of upper-tier requirements: 200 tons  
 - Remarks:  
 The qualifying quantities set out above relate to each establishment. The quantities to be considered for the application of the relevant Articles are the maximum quantities which are present or are likely to be present at any one time. Dangerous substances present at an establishment only in quantities equal to or less than 2 % of the relevant qualifying quantity shall be ignored for the purposes of calculating the total quantity present, if their location within an establishment is such that it cannot act as an initiator of a major accident elsewhere at that establishment. For more details, see note 4 of Annex I of the Seveso Directive.
- 7.3** SPECIFIC END USES:  
 # For the use of this product particular recommendations apart from that already indicated are not available.



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## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1

CONTROL PARAMETERS:

If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689, EN14042 and EN482 standard concerning methods for assessing the exposure by inhalation to chemical agents, and exposure to chemical and biological agents. Reference should be also made to national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2018	Year	TLV-TWA ppm	mg/m3	TLV-STEL ppm	mg/m3	Remarks
m-phenylenebis(methylamine)	1977	-	-	-	0.10C	Internal value A3 , Skin , BEI

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

C - Ceiling value: The concentration that should not be exceeded during any part of the working exposure.

Skin - Danger of cutaneous absorption.

A3 - Carcinogenic in animals.

BEI - Biological exposure index (biological monitoring).

Dermal (Vd): Means that, in exposures to this substance, the contribution by the cutaneous route, including the mucous membranes and eyes, may result significant for the overall body content if no measures are taken to prevent absorption. There are some chemicals for which dermal absorption, both in liquid and vapour phases, can be very high, and this route of entry may be or equal or greater importance even that inhalation pathway. In these situations, the use of a biological control is essential in order to quantify the overall amount of contaminant absorbed.

BIOLOGICAL LIMIT VALUES:

Not available

DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from an occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

<u>Derived no-effect level, workers:</u> - Systemic effects, acute and chronic: Not available (without data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/kg bw/d -	<u>DNEL Oral</u> mg/kg bw/d -
<u>Derived no-effect level, workers:</u> - Local effects, acute and chronic: Not available (without data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/cm2 -	<u>DNEL Eyes</u> mg/cm2 -

Derived no-effect level, general population:

Not applicable (product for professional or industrial use).

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## PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms:  
- Fresh water, marine water and intermittent release:  
Not available (without data of registration REACH).

PNEC Fresh water  
mg/l  
-

PNEC Marine  
mg/l  
-

PNEC Intermittent  
mg/l  
-

- Wastewater treatment plants (STP) and sediments in fresh- and marine water:  
Not available (without data of registration REACH).

PNEC STP  
mg/l  
-

PNEC Sediments  
mg/kg dw/d  
-

PNEC Sediments  
mg/kg dw/d  
-

Predicted no-effect concentration, terrestrial organisms:  
- Air, soil and effects for predators and humans:  
Not available (without data of registration REACH).

PNEC Air  
mg/m3  
-

PNEC Soil  
mg/kg dw/d  
-

PNEC Oral  
mg/kg dw/d  
-

8.2

## EXPOSURE CONTROLS:

### ENGINEERING MEASURES:



Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Protection of respiratory system: Avoid the inhalation of vapours.

Protection of eyes and face: Install water taps, sources or eyewash bottles with clean water close to the working area.

Protection of hands and skin: Install water taps or sources with clean water close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

### OCCUPATIONAL EXPOSURE CONTROLS: Regulation (EU) No. 2016/425:

As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding marking. For more information on personal protective equipment (storage, use, deaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc..), you should consult the informative brochures provided by the manufacturers of PPE.

#### Mask:



A-type filter mask (brown) for gases and vapours of organic compounds with a boiling point higher than 65°C (EN14387). Class 1: low capacity up to 1000 ppm, Class 2: medium capacity up to 5000 ppm, Class 3: high capacity up to 10000 ppm. In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. The respiratory equipment with filters does not work satisfactorily when the air contains high concentrations of vapour or oxygen content less than 18% in volume. In presence of high concentrations of vapour, use independent breathing apparatus.

#### Safety goggles:



Safety goggles for chemicals, with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.

#### Face shield:

Face shield against liquid splashes (EN166), advisable when there is a risk of spillage, diffusion or atomization of the liquid.

#### Gloves:



Neoprene rubber gloves (EN374). The breakthrough time of the selected glove material should be in accordance with the pretended period of use. When repeated or prolonged contact with the product is expected, gloves of protection level 5 or higher should be used, with a breakthrough time of >240 min. When short contact with the product is expected, use gloves with a protection level 2 or higher should be used, with a breakthrough time >30 min. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, the instructions/specifications provided by the glove supplier should be taken into account. Use the proper technique of removing gloves (without touching glove's outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.

#### Boots:



Neoprene rubber boots (EN347).

#### Apron:



*# Apron resistant against corrosive products.*

#### Clothing:



Clothing resistant to corrosive products will have to be worn.

#### Thermal hazards:

Not applicable (the product is handled at room temperature).

#### ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid any spillage in the environment. Avoid any release into the atmosphere.

Spills on the soil: Prevent contamination of soil.



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Spills in water: # Do not allow to escape into drains, sewers or water courses.

- Water Management Act: This product does not contain any substance included in the list of priority substances in the field of water policy under Directive 2000/60/EC~2013/39/EU.

Emissions to the atmosphere: Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the atmosphere.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

#### Appearance

- Physical state : Liquid.
- Colour : # Medium
- Odour : # Characteristic.
- Odour threshold : Not available (mixture).

#### pH-value

- pH : Alkaline

#### Change of state

- Melting point : Not applicable (mixture).
- Boiling interval : 204. - 247\* °C at 760 mmHg

#### Density

- Vapour density : 3.73\* at 20°C 1 atm. Relative air
- Relative density : 1. ± 0.02 at 20/4°C Relative water

#### Stability

- Decomposition temperature : Not available (technical impossibility to obtain the data).

#### Viscosity:

- Dynamic viscosity : # 220. ± 50. cps 23°C
- Kinematic viscosity : # 89. mm<sup>2</sup>/s at 40°C

#### Volatility:

- Evaporation rate : # Not available (lack of data).
- Vapour pressure : 0.11\* mmHg at 20°C
- Vapour pressure : 0.14\* kPa at 50°C

#### Solubility(ies)

- Solubility in water : # Limited
- Liposolubility : Not available (mixture untested).
- Partition coefficient: n-octanol/water : Not applicable (mixture).

#### Flammability:

- Flash point : 99\* °C # CLP 2.6.4.3.
- Upper/lower flammability or explosive limits : # 1.3\* - 13.1 % Volume 25°C
- Autoignition temperature : Not applicable (do not sustain combustion).

#### Explosive properties:

Vapours can form explosive mixtures with air and are able to flame up or explode in presence of an ignition source.

#### Oxidizing properties:

Not classified as oxidizing product.

\*Estimated values based on the substances composing the mixture.

### 9.2 OTHER INFORMATION:

- Solids : # 65. % Weight
- VOC (supply) : # 35.0 % Weight
- VOC (supply) : # 350.0 g/l

The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the corresponding technical data sheet. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1 REACTIVITY:

Corrosivity to metals: Not available.

Pyrophorical properties: It is not pyrophoric.

### 10.2 CHEMICAL STABILITY:

Stable under recommended storage and handling conditions.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Possible dangerous reaction with reducing agents, oxidizing agents, acids, alkalis.

### 10.4 CONDITIONS TO AVOID:

Heat: Keep away from sources of heat.

Light: If possible, avoid direct contact with sunlight.

Air: The product is not affected by exposure to air, but should not be left the containers open.

Humidity: Avoid extreme humidity conditions.

Pressure: Not relevant.

Shock: The product is not sensitive to shocks, but as a recommendation of a general nature should be avoided bumps and rough handling to avoid dents and breakage of packaging, especially when the product is handled in large quantities, and during loading and download operations.

### 10.5 INCOMPATIBLE MATERIALS:

Keep away from reducing agents, oxidizing agents, acids, alkalis.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

As consequence of thermal decomposition, hazardous products may be produced: nitrogen oxides.





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## SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2018/1480 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:ACUTE TOXICITY:Dose and lethal concentrations

for individual ingredients :

Benzyl alcohol

m-phenylenebis(methylamine)

LD50 (OECD 401)  
mg/kg bw oral

1620. Rat

930. Rat

LD50 (OECD 402)  
mg/kg bw cutaneous

&gt; 2000. Rabbit

3100. Rabbit

LC50 (OECD 403)  
mg/m3-4h inhalation

&gt; 8800. Rat

&gt; 1340. Rat

Estimates of acute toxicity (ATE)

for individual ingredients :

Benzyl alcohol

m-phenylenebis(methylamine)

ATE  
mg/kg bw oral

1620.

930.

ATE  
mg/kg bw cutaneous

-

-

ATE  
mg/m3-4h inhalation

11000.\* Vapours

11000.\* Vapours

(\*) - Point estimates of acute toxicity corresponding to the classification category (see GHS/CLP Table 3.1.2). These values are designed to be used in the calculation of the ATE for classification of a mixture based on its components and do not represent test results.

(-) - The components that are assumed to have no acute toxicity at the upper threshold of category 4 for the corresponding exposure route are ignored.

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria
<u>Inhalation:</u> Not classified	ATE > 20000 mg/m3	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
<u>Skin:</u> Not classified	ATE > 2000 mg/kg bw	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).	GHS/CLP 3.1.3.6.
<u>Eyes:</u> Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).	GHS/CLP 1.2.5.
<u>Ingestion:</u> Not classified	ATE > 2000 mg/kg bw	-	<i># Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).</i>	GHS/CLP 3.1.3.6.

GHS/CLP 3.1.3.6: Classification of mixtures based on ingredients of the mixture (additivity formula).

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Respiratory corrosion/irritation:</u> 	Respiratory tract 	-	<i># CORROSIVE: Corrosive to the respiratory tract.</i>	GHS/CLP 1.2.6.
<u>Skin corrosion/irritation:</u> 	Skin 	Cat.1B	CORROSIVE: Causes severe skin burns.	GHS/CLP 3.2.3.3.
<u>Serious eye damage/irritation:</u> 	Eyes 	Cat.1	DAMAGE: Causes serious eye damage.	GHS/CLP 3.3.3.3.
<u>Respiratory sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 3.4.3.3.
<u>Skin sensitisation:</u> 	Skin 	Cat.1	SENSITISING: May cause an allergic skin reaction.	GHS/CLP 3.4.3.3.

GHS/CLP 3.2.3.3: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.3.3.3: Classification of the mixture when data are available for all components or only for some components.

GHS/CLP 3.4.3.3: Classification of the mixture when data are available for all components or only for some components.



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ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Aspiration hazard:</u> Not classified	-	-	Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).	GHS/CLP 3.10.3.3.

GHS/CLP 3.10.3.3: Classification of the mixture when data are available for all components or only for some components.

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Not classified as a dangerous product for target organs (based on available data, the classification criteria are not met).

CMR EFFECTS:Carcinogenic effects: It is not considered as a carcinogenic product.Genotoxicity: It is not considered as a mutagenic product.Toxicity for reproduction: Does not harm fertility. Does not harm the unborn child.Effects via lactation: Not classified as a hazardous product for children breast-fed.DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:Routes of exposure: May be absorbed by inhalation of vapour, through the skin and by ingestion.

Short-term exposure: \* Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Liquid splashes in the eyes may cause irritation and reversible damage. If swallowed, may cause irritation of the throat and other effects may be the same as described in the exposure to vapours. Causes burns to the skin or eyes by direct contact or to the digestive tract if swallowed. The mists of fine particles are skin and respiratory tract irritants. Causes serious eye damage. May cause an allergic skin reaction. Corrosive to the respiratory tract.

Long-term or repeated exposure: Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOKINETICS, METABOLISM AND DISTRIBUTION:Dermal absorption:

This preparation contains the following substances for which dermal absorption can be very high: m-phenylenebis(methylamine).

Basic toxicokinetics: Not available.ADDITIONAL INFORMATION:

- Causes burns to the skin or eyes by direct contact or to the digestive tract if swallowed. The mists of fine particles are skin and respiratory tract irritants.

**SECTION 12 : ECOLOGICAL INFORMATION**

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EU) No. 1272/2008~2018/1480 (CLP).

**12.1 TOXICITY:**Acute toxicity in aquatic environment

for individual ingredients :

Cycoaliphatic amine-epoxy aduct

Benzyl alcohol

m-phenylenebis(methylamine)

LC50 (OECD 203)

mg/l-96hours

&gt; 71. Fishes

460. Fishes

&gt; 88. Fishes

EC50 (OECD 202)

mg/l-48hours

&gt; 11. Daphnia

230. Daphnia

&gt; 15. Daphnia

EC50 (OECD 201)

mg/l-72hours

&gt; 79. Algae

770. Algae

&gt; 20. Algae

No observed effect concentration

m-phenylenebis(methylamine)

NOEC (OECD 210)

mg/l-28days

NOEC (OECD 211)

mg/l-21days

4.7 Daphnia

NOEC (OECD 201)

mg/l-72hours

11. Algae

Lowest observed effect concentration

Not available

ASSESSMENT OF AQUATIC TOXICITY:

Aquatic toxicity	Cat.	Main hazards to the aquatic environment	Criteria
<u>Acute aquatic toxicity:</u> Not classified	-	Not classified as a hazardous product with acute toxicity to aquatic life (based on available data, the classification criteria are not met).	GHS/CLP 4.1.3.5.5.3.
<u>Chronic aquatic toxicity:</u>	Cat.3	HARMFUL: Harmful to aquatic life with long lasting effects.	GHS/CLP 4.1.3.5.5.4.

CLP 4.1.3.5.5.3: Classification of a mixture for acute hazards, based on summation of classified components.

CLP 4.1.3.5.5.4: Classification of a mixture for chronic (long term) hazards, based on summation of classified components.

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**12.2 PERSISTENCE AND DEGRADABILITY:**

Not available.

Aerobic biodegradation

for individual ingredients :

Cycloaliphatic amine-epoxy aduct

Benzyl alcohol

m-phenylenebis(methylamine)

DQOmgO<sub>2</sub>/g

2515.

%DBO/DQO

5 days 14 days 28 days

~ 62.	~ 86.	~ 95.
8.	29.	49.

Biodegradability

Not easy  
Easy  
Not easy

Note: Biodegradability data correspond to an average of data from various bibliographic sources.

**12.3 BIOACCUMULATIVE POTENTIAL:**

Not available.

Bioaccumulation

for individual ingredients :

Cycloaliphatic amine-epoxy aduct

Benzyl alcohol

m-phenylenebis(methylamine)

log Pow

3.60  
1.10  
0.180

BCF

L/kg

1.4 (calculated)  
3.2 (calculated)

Potential

Not available  
Not available  
Not available

**12.4 MOBILITY IN SOIL:**

Not available.

Mobility

for individual ingredients :

Cycloaliphatic amine-epoxy aduct

Benzyl alcohol

m-phenylenebis(methylamine)

log K<sub>oc</sub>

3.21  
1.10  
0.960

Constant of HenryPa·m<sup>3</sup>/mol 20°C

0.034 (calculated)

Potential

Not available  
Not available  
Not available

**12.5 RESULTS OF PBT AND VPVB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006:**

Does not contain substances that fulfil the PBT/vPvB criteria.

**12.6 OTHER ADVERSE EFFECTS:**Ozone depletion potential: Not available.Photochemical ozone creation potential: Not available.Earth global warming potential: Not available.Endocrine disrupting potential: Not available.**SECTION 13 : DISPOSAL CONSIDERATIONS****13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC~Regulation (EU) no. 1357/2014:**

Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose at an authorised waste collection point. Waste should be handled and disposed in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC~2015/720/EU, Decision 2000/532/EC~2014/955/EU:

Emptied containers and packaging should be disposed in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.

Procedures for neutralising or destroying the product:

Authorised landfill in accordance with local regulations.

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**SECTION 14 : TRANSPORT INFORMATION**14.1 UN NUMBER: 273514.2 UN PROPER SHIPPING NAME:  
AMINES, LIQUID, CORROSIVE, N.O.S. | POLYAMINES, LIQUID, CORROSIVE, N.O.S. (contains cycloaliphatic amine-epoxy adduct, in solution)14.3 TRANSPORT HAZARD CLASS(ES):Transport by road (ADR 2019) and  
Transport by rail (RID 2019):

- Class: 8
- Packing group: II
- Classification code: C7
- Tunnel restriction code: (E)
- Transport category: 2, max. ADR 1.1.3.6. 333 L
- Limited quantities: 1 L (see total exemptions ADR 3.4)
- Transport document: Consignment paper.
- Instructions in writing: ADR 5.4.3.4

Transport by sea (IMDG 39-18):

- Class: 8
- Packing group: II
- Emergency Sheet (EmS): F-A,S-B
- First Aid Guide (MFAG): 320
- Marine pollutant: No.
- Transport document: Shipping Bill of lading.

Transport by air (ICAO/IATA 2020):

- Class: 8
- Packing group: II
- Transport document: Air Bill of lading.

Transport by inland waterways (ADN):  
Not available.14.4 PACKING GROUP:  
See section 14.314.5 ENVIRONMENTAL HAZARDS:  
Not applicable.14.6 SPECIAL PRECAUTIONS FOR USER:  
Ensure that persons transporting the product know what to do in case of accident or spill. Always transport in closed containers that are upright and secure. Ensure adequate ventilation. Keep separated from foodstuffs.14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:  
# Not available.**SECTION 15 : REGULATORY INFORMATION**15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:  
The regulations applicable to this product generally are listed throughout this Safety Data Sheet.Restrictions on manufacture, placing on market and use: See section 1.2Tactile warning of danger: Not applicable (product for professional or industrial use).Child safety protection: Not applicable (product for professional or industrial use).OTHER REGULATIONS:Control of the risks inherent in major accidents (Seveso III): See section 7.2Other local legislations:

# The receiver should verify the possible existence of local regulations applicable to the chemical.

15.2 CHEMICAL SAFETY ASSESSMENT:  
A chemical safety assessment has not been carried out for this mixture.



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## SECTION 16 : OTHER INFORMATION

TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:Hazard statements according to the Regulation (EU) No. 1272/2008~2018/1480 (CLP), Annex III:

H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. 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. EUH071 Corrosive to the respiratory tract.

EVALUATION OF THE INFORMATION ON THE DANGER OF MIXTURES: See sections 9.1, 11.1 and 12.1.

ADVISES ON ANY TRAINING APPROPRIATE FOR WORKERS:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of Safety Data Sheets and labelling of products as well.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- European Chemicals Agency: ECHA, <http://echa.europa.eu/>
- Access to European Union Law, <http://eur-lex.europa.eu/>
- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- Threshold Limit Values, (AGCIH, 2017).
- European agreement on the international carriage of dangerous goods by road, (ADR 2019).
- International Maritime Dangerous Goods Code IMDG including Amendment 39-18 (IMO, 2018).

ABBREVIATIONS AND ACRONYMS:

List of abbreviations and acronyms that can be used (but not necessarily used) in this Safety Data Sheet:

- REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- CLP: European regulation on Classification, Labelling and Packaging of substances and chemical mixtures.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- ELINCS: European List of Notified Chemical Substances.
- CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials.
- SVHC: Substances of Very High Concern.
- PBT: Persistent, bioaccumulable and toxic substances.
- vPvB: Very persistent and very bioaccumulable substances.
- VOC: Volatile Organic Compounds.
- DNEL: Derived No-Effect Level (REACH).
- PNEC: Predicted No-Effect Concentration (REACH).
- LD50: Lethal dose, 50 percent.
- LC50: Lethal concentration, 50 percent.
- UN: United Nations Organisation.
- ADR: European agreement concerning the international carriage of dangerous goods by road.
- RID: Regulations concerning the international transport of dangerous goods by rail.
- IMDG: International Maritime code for Dangerous Goods.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organization.

SAFETY DATA SHEET REGULATIONS:

Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex of Regulation (EU) No. 2015/830.

HISTORIC:Revision:

Version: 1 30/03/2017  
Version: 2 25/05/2020

Changes since previous Safety Data Sheet:

*# Legislative, contextual, numerical, methodological and normative changes since the previous version of the present Safety Data Sheet are identified by a red-italic hash (#).*

The information of this Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.