

# SAFETY DATA SHEET (REACH)

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

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DANOCOAT 250 COMP. B ROJO



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

- 1.1 **PRODUCT IDENTIFIER:** DANOCOAT 250 COMP. B ROJO
- 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 for coating of pure aromatic polyurea.  
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: Acute Tox. (oral) 4:H302 | Skin Corr. 1B:H314 | Eye Dam. 1:H318 | Skin Sens. 1:H317 | STOT RE 2:H373 | Aquatic Acute 1:H400 | Aquatic Chronic 1:H410

Danger class	Classification of the mixture	Cat.	Routes of exposure	Target organs	Effects
<u>Physicochemical:</u> Not classified	Acute Tox. (oral) 4:H302 Skin Corr. 1B:H314 Eye Dam. 1:H318 Skin Sens. 1:H317	c) c) c) c)	Cat.4 Cat.1B Cat.1 Cat.1	Ingestion Skin Eyes Skin	Harmful Burns Serious lesions Allergy Damage
<u>Human health:</u> 	STOT RE 2:H373 Aquatic Acute 1:H400 Aquatic Chronic 1:H410	c) c) c)	Cat.2 Cat.1 Cat.1	. - -	Systemic - -
<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:  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H410 Very toxic to aquatic life with long lasting effects.
- 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. Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell.  
 P305+P351+P338-P310 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.  
 P273-P391-P501a Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with local regulations.

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Supplementary statements:

None.

Substances that contribute to classification:

Poly(oxypropylene)diamine

Diethylmethylbenzenediamine

Glycerylpoly(oxypropylene)triamine

Maleic anhydride

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: No other relevant adverse effects are known.Other adverse human health effects: No other relevant adverse effects are known.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:

Mixture of pigments, resins and additives in organic solvents.

HAZARDOUS INGREDIENTS:

Substances taking part in a percentage higher than the exemption limit:

50 &lt; 60 %

Poly(oxypropylene)diamine

CAS: 9046-10-0 , List No. 618-561-0

REACH: Exempt (polymer)

Autoclassified

CLP: Danger: Acute Tox. (oral) 4:H302 | Skin Corr. 1C:H314 | Eye Dam. 1:H318 | Aquatic Chronic 3:H412

25 &lt; 30 %

Diethylmethylbenzenediamine

CAS: 68479-98-1 , EC: 270-877-4

REACH: 01-2119486805-25

Index No. 612-130-00-0  
< REACH / CLP00

CLP: Warning: Acute Tox. (skin) 4:H312 | Acute Tox. (oral) 4:H302 | Eye Irrit. 2:H319 | STOT RE 2:H373 | Aquatic Acute 1:H400 (M=1) | Aquatic Chronic 1:H410 (M=1)

5 &lt; 10 %

Glycerylpoly(oxypropylene)triamine

CAS: 64852-22-8 , List No. 613-700-1

Autoclassified

CLP: Danger: Skin Irrit. 2:H315 | Eye Dam. 1:H318

&lt; 0,15 %

Ammonia

CAS: 1336-21-6 , EC: 215-647-6

Index No. 007-001-01-2  
< CLP00

CLP: Danger: Skin Corr. 1B:H314 | STOT SE (irrit.) 3:H335 | Aquatic Acute 1:H400 (M=1)

&lt; 0,0020 %

Maleic anhydride

CAS: 108-31-6 , EC: 203-571-6

Index No. 607-096-00-9  
< ATP13

CLP: Danger: Acute Tox. (oral) 4:H302 | Skin Corr. 1B:H314 | Eye Dam. 1:H318 | Resp. Sens. 1:H334 | Skin Sens. 1A:H317 | STOT RE 1:H372iR | EUH071

Impurities:

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 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.	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.
<u>Eyes:</u> 	Contact with the eyes produces redness, pain, serious burns and loss of vision.	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.

**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, traces of hydrocyanic acid. 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.

**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:  
 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:  
 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. Do not smoke.  
 - Flash point : 156\* °C  
 - Autoignition temperature : 283\* °C  
 - Upper/lower flammability or explosive limits : 15.9\* - 25.1 % Volume 25°C  
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 : 6. months  
Temperature interval : min: 5. °C, max: 30. °C (recommended).  
Incompatible materials:  
 Keep away from oxidizing agents, acids.  
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: Very toxic to aquatic life with long lasting effects (E1) (100t/200t).  
 · Other hazards: Not applicable.  
 - Threshold quantity for the application of lower-tier requirements: 100 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
Ammonia	1976	25.	17.	35.	24.	A4 Sc, Si
Maleic anhydride	2000	0.10	0.40	-	-	

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

Sc - May cause sensitization by skin contact.

Si - May cause sensitization by inhalation.

A4 - Non classified as carcinogenic in humans.

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 a 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.

Derived no-effect level, workers:  
- Systemic effects, acute and chronic:  
Poly(oxypropylene)diamine  
Diethylmethylbenzenediamine

DNEL Inhalation  
mg/m3

- (a) - (c)  
- (a) 0.130 (c)

DNEL Cutaneous  
mg/kg bw/d

- (a) - (c)  
- (a) 1.00 (c)

DNEL Oral  
mg/kg bw/d

- (a) - (c)  
- (a) - (c)

Derived no-effect level, workers:  
- Local effects, acute and chronic:  
Poly(oxypropylene)diamine  
Diethylmethylbenzenediamine

DNEL Inhalation  
mg/m3

- (a) - (c)  
- (a) - (c)

DNEL Cutaneous  
mg/cm2

- (a) - (c)  
- (a) - (c)

DNEL Eyes  
mg/cm2

- (a) - (c)  
- (a) - (c)

Derived no-effect level, general population:

Not applicable (product for professional or industrial use).

(a) - Acute, short-term exposure, (c) - Chronic, long-term or repeated exposure.

(-) - DNEL not available (without data of registration REACH).

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## PREDICTED NO-EFFECT CONCENTRATION (PNEC):

Predicted no-effect concentration, aquatic organisms:  
- Fresh water, marine water and intermittent release:  
Poly(oxypropylene)diamine  
Diethylmethylbenzenediamine

PNEC Fresh water  
mg/l

-  
0.000500

PNEC Marine  
mg/l

-  
0.000050

PNEC Intermittent  
mg/l

-  
0.00500

- Wastewater treatment plants (STP) and sediments in fresh- and marine water:  
Poly(oxypropylene)diamine  
Diethylmethylbenzenediamine

PNEC STP  
mg/l

-  
17.0

PNEC Sediments  
mg/kg dw/d

-  
0.0290

PNEC Sediments  
mg/kg dw/d

-  
0.00290

Predicted no-effect concentration, terrestrial organisms:  
- Air, soil and effects for predators and humans:  
Poly(oxypropylene)diamine  
Diethylmethylbenzenediamine

PNEC Air  
mg/m3

-  
-

PNEC Soil  
mg/kg dw/d

-  
0.00560

PNEC Oral  
mg/kg dw/d

-  
2.00

(-) - PNEC not available (without data of registration REACH).

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. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

Protection of respiratory system: Avoid the inhalation of product.

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:



Mask for gases and vapours (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.

#### 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). 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. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. 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:

No.

#### 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.

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: Not applicable.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

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

#### Appearance

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

#### pH-value

- pH : Alkaline

#### Change of state

- Melting point : Not applicable (mixture).
- Boiling interval : 200\* - 308\* °C at 760 mmHg

#### Density

- Vapour density : Not available
- Relative density : 1.02\* at 20/4°C Relative water

#### Stability

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

#### Viscosity:

- Viscosity (flow time) : Not available

#### Volatility:

- Evaporation rate : Not applicable
- Vapour pressure : 0.0004\* mmHg at 20°C
- Vapour pressure : 0.001\* kPa at 50°C

#### Solubility(ies)

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

#### Flammability:

- Flash point : 156\* °C
- Upper/lower flammability or explosive limits : 15.9\* - 25.1 % Volume 25°C
- Autoignition temperature : 283\* °C

#### Explosive properties:

Not available.

#### Oxidizing properties:

Not classified as oxidizing product.

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

### 9.2 OTHER INFORMATION:

- Solids : 100. % Weight

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 oxidizing agents, acids.

### 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 oxidizing agents, acids.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

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



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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 :

Poly(oxypropylene)diamine  
Diethylmethylbenzenediamine  
Glycerylpoly(oxypropylene)triamine  
Ammonia  
Maleic anhydride

LD50 (OECD 401)  
mg/kg bw oral

480. Rat  
738. Rat  
> 2000. Rat  
350. Rat  
481. Rat

LD50 (OECD 402)  
mg/kg bw cutaneous

2979. Rabbit  
1410. Rabbit  
> 2000. Rabbit  
-  
2620. Rabbit

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

> 2450. Rat  
> 5000. Rat  
> 720. Rat

Estimates of acute toxicity (ATE)

for individual ingredients :

Poly(oxypropylene)diamine  
Diethylmethylbenzenediamine  
Maleic anhydride

ATE  
mg/kg bw oral

480.  
738.  
481.

ATE  
mg/kg bw cutaneous

-  
1410.  
-

ATE  
mg/m3-4h inhalation

-  
-  
-

(\*) - 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 > 5000 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	-	<i># Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).</i>	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> 	ATE : 631. mg/kg bw	Cat.4	HARMFUL: Harmful if swallowed.	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> Not classified	-	-	Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).	GHS/CLP 1.2.6. 3.8.3.4.
<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	<i># SENSITISING: May cause an allergic skin reaction.</i>	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):

Effects	SE/RE	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
<u>Systemic:</u> 	RE	Systemic 	Cat.2	HARMFUL: May cause damage to organs through prolonged or repeated exposure.	GHS/CLP 3.8.3.4.

GHS/CLP 3.8.3.4: Classification of the mixture when data are available for all components or only for some components.

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: Not available.Short-term exposure: 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.Long-term or repeated exposure:INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:Dermal absorption: Not available.Basic toxicokinetics: Not available.ADDITIONAL INFORMATION:

Not available.

**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:

<u>Acute toxicity in aquatic environment</u> for individual ingredients :	<u>LC50</u> (OECD 203) mg/l·96hours	<u>EC50</u> (OECD 202) mg/l·48hours	<u>EC50</u> (OECD 201) mg/l·72hours
Poly(oxypropylene)diamine	> 15. Fishes	> 80. Daphnia	> 15. Algae
Diethylmethybenzenediamine	183. Fishes	0.50 Daphnia	104. Algae
Glycerylpoly(oxypropylene)triamine	470. Fishes		
Ammonia	0.68 Fishes	101. Daphnia	2700. Algae
Maleic anhydride	230. Fishes	330. Daphnia	150. Algae

<u>No observed effect concentration</u>	<u>NOEC</u> (OECD 210) mg/l·28days	<u>NOEC</u> (OECD 211) mg/l·21days	<u>NOEC</u> (OECD 201) mg/l·72hours
Poly(oxypropylene)diamine		0.32 Daphnia	
Maleic anhydride		> 10. Daphnia	150. 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> 	Cat.1	VERY TOXIC: Very toxic to aquatic life.	GHS/CLP 4.1.3.5.5.3.
<u>Chronic aquatic toxicity:</u> 	Cat.1	VERY TOXIC: Very toxic 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 :

Poly(oxypropylene)diamine

Diethylmethylbenzenediamine

Glycerylpoly(oxypropylene)triamine

Maleic anhydride

DQOmgO<sub>2</sub>/g

2370.

979.

%DBO/DQO

5 days 14 days 28 days

1.

~ 41. ~ 75. ~ 97.

Biodegradability

Not easy

Not easy

Not easy

Easy

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

**12.3 BIOACCUMULATIVE POTENTIAL:**

May bioaccumulate.

Bioaccumulation

for individual ingredients :

Poly(oxypropylene)diamine

Diethylmethylbenzenediamine

Glycerylpoly(oxypropylene)triamine

Ammonia

Maleic anhydride

log Pow

1.34

1.17

-2.66

-2.61

BCF

L/kg

4.2 (calculated)

3.2 (calculated)

5.4 (calculated)

Potential

Not available

Not available

Not available

Not available

Not available

**12.4 MOBILITY IN SOIL:**

Not available.

Mobility

for individual ingredients :

Poly(oxypropylene)diamine

Diethylmethylbenzenediamine

Glycerylpoly(oxypropylene)triamine

Maleic anhydride

log Koc

0.150

0.783

1.36

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

Not available

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 applicable.Photochemical ozone creation potential: Not available.Earth global warming potential: In case of fire or incineration liberates CO<sub>2</sub>.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:

Controlled incineration in special facilities for chemical waste, 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 poly(oxypropylene)diamine, in solution)14.3 TRANSPORT HAZARD CLASS(ES):Transport by road (ADR 2019) and  
Transport by rail (RID 2019):

- Class: 8
- Packing group: III
- Classification code: C7
- Tunnel restriction code: (E)
- Transport category: 3, max. ADR 1.1.3.6. 1000 L
- Limited quantities: 5 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: III
- Emergency Sheet (EmS): F-A,S-B
- First Aid Guide (MFAG): 320
- Marine pollutant: Yes.
- Transport document: Shipping Bill of lading.

Transport by air (ICAO/IATA 2020):

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

Transport by inland waterways (ADN):

Not available.

14.4 PACKING GROUP:

See section 14.3

14.5 ENVIRONMENTAL HAZARDS:

Classified as hazardous for the environment.

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. 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. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH071 Corrosive to the respiratory tract. H373 May cause damage to organs through prolonged or repeated exposure. H372iR Causes damage to respiratory system through prolonged or repeated exposure if inhaled.

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

#### ADVICES 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/>
- 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.
- 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:

Version: 1

#### Date of compilation:

26/05/2020

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.