



DANOCOAT 250 COMP.B




Version: 4

Revision: 30/01/2023

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

1.1	PRODUCT IDENTIFIER: DANOCOAT 250 COMP.B UFI: 6410-G087-3006-E15T
1.2	RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST: <u>Intended uses (main technical functions):</u> <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Professional <input type="checkbox"/> Consumers Component for coating of pure aromatic polyurea. <u>Sectors of use:</u> Consumer uses (SU21). <u>Uses advised against:</u> 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". <u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> Not restricted.
1.3	DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET: DANOSA - DERIVADOS ASFÁLTICOS NORMALIZADOS, S.A. Polígono Industrial, Sector 9 - 19290 Fontanar (Guadalajara) ESPAÑA Phone number: 949888210 - Fax: 949 888 223 - www.danosa.com <u>- E-mail address of the person responsible for the Safety Data Sheet:</u> info@danosa.com
1.4	EMERGENCY TELEPHONE NUMBER: 902 422 452 8:30-17:30 h  National Poisons Information Service (NPIS) - In England, Wales or Scotland: dial 111 - In N Ireland: contact your local GP or pharmacist during normal 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. 1272/2008~2021/849 (CLP):

DANGER:Acute Tox. (oral) 4:H302|Skin Corr. 1C:H314|Eye Dam. 1:H318|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
Physicochemical: Not classified					
Human health: 	Acute Tox. (oral) 4:H302 c) Skin Corr. 1C:H314 c) Eye Dam. 1:H318 c) STOT RE 2:H373 c)	Cat.4 Cat.1C Cat.1 Cat.2	Ingestion Skin Eyes -	- Skin Eyes Systemic	Harmful Irritation Serious lesions Damage
Environment: 	Aquatic Acute 1:H400 c) Aquatic Chronic 1:H410 c)	Cat.1 Cat.1	- -	- -	- -

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. 1272/2008~2021/849 (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.

H410 Very toxic to aquatic life with long lasting effects.

- Precautionary statements:

P102-P405 Keep out of reach of children. Store locked up.

P280 Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory protection.

P363 Wash contaminated clothing before reuse.

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 water and soap.. 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.

P308+P310+P101 IF exposed or concerned: Immediately call a POISON CENTER or doctor. If medical advice is needed, have product container or label at hand.



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	<p>P273-P391-P501 Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with local regulations.</p> <p>- Supplementary statements:</p> <p>- Substances that contribute to classification:</p> <p>Poly(oxypropylene)diamine Diethylmethylbenzenediamine Glycerylpoly(oxypropylene)triamine</p>
2.3	<p>OTHER HAZARDS:</p> <p>Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:</p> <p>- Other physicochemical hazards:</p> <p>No other relevant adverse effects are known.</p> <p>- Other adverse human health effects:</p> <p>No other relevant adverse effects are known.</p> <p>- Other negative environmental effects:</p> <p>Does not contain substances that fulfil the PBT/vPvB criteria.</p> <p>Endocrine disrupting properties:</p> <p>This product contains substances with endocrine disrupting properties under evaluation in a concentration equal to or greater than 0.1% by weight: Diethylmethylbenzenediamine.</p>

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1	SUBSTANCES: Not applicable (mixture).		
3.2	MIXTURES: This product is a mixture. Chemical description: Mixture of chemical substances. HAZARDOUS INGREDIENTS: Substances taking part in a percentage higher than the exemption limit:		
	60 < C < 70 % 	Poly(oxypropylene)diamine CAS: 9046-10-0, EC: , REACH: Exempt (polymer) CLP: Danger: Acute Tox. (oral) 4:H302 Skin Corr. 1C:H314 Eye Dam. 1:H318 Aquatic Chronic 3:H412	Autoclassified Notified
	20 < C ≤ 25 % 	Diethylmethylbenzenediamine CAS: 68479-98-1, EC: 270-877-4, REACH: 01-2119486805-25 CLP: Warning: Acute Tox. (skin) 4:H312 Acute Tox. (oral) 4:H302 Eye Irrit. 2:H319 STOT RE 2:H373 Aquatic Acute 1:H400 Aquatic Chronic 1:H410	REACH / CLP00
	5 < C < 10 % 	Glycerylpoly(oxypropylene)triamine CAS: 64852-22-8, EC: 613-700-1 CLP: Danger: Skin Irrit. 2:H315 Eye Dam. 1:H318	Autoclassified Notified
	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 10/06/2022.		
	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:

Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. 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
Inhalation:	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.
Skin:	Skin contact causes redness, burns and pain.	Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser.
Eyes:	Contact with the eyes produces redness, pain and serious burns.	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. If irritation persists, consult a physician.
Ingestion:	If swallowed, causes severe burns on the lips, mouth, throat and oesophagus, with gastric disorders and abdominal pain.	If swallowed, seek medical advice immediately and show container or label. 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: FIREFIGHTING MEASURES

5.1

EXTINGUISHING MEDIA:

Extinguishing powder or CO₂.

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.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	<u>PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:</u> Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product.
6.2	<u>ENVIRONMENTAL PRECAUTIONS:</u> 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	<u>METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:</u> Never add water to this product. Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc.). Keep the remains in a closed container.
6.4	<u>REFERENCE TO OTHER SECTIONS:</u> 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.

SECTION 7: HANDLING AND STORAGE

7.1	<u>PRECAUTIONS FOR SAFE HANDLING:</u> Comply with the existing legislation on health and safety at work. <u>- General recommendations:</u> Handle with care, avoiding any discharge. Avoid any type of leakage or escape. Keep the container tightly closed. <u>- Recommendations for the prevention of fire and explosion risks:</u> 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. Flashpoint 128* °C (Pensky-Martens) CLP 2.6.4.3. Autoignition temperature: Not applicable. <u>- Recommendations for the prevention of toxicological risks:</u> 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. <u>- Recommendations for the prevention of environmental contamination:</u> 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	<u>CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:</u> 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. 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. <u>- Class of store:</u> According to current legislation. <u>- Maximum storage period:</u> 12 Months. <u>- Temperature interval:</u> min:15 °C, max:25 °C (recommended). <u>- Incompatible materials:</u> Keep away from oxidizing agents, acids. <u>- Type of packaging:</u> According to current legislation. <u>- Limit quantity (Seveso III): Directive 2012/18/EU:</u> Not applicable (product for non industrial use).
7.3	<u>SPECIFIC END USE(S):</u> 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 (WEL)

Not established

- BIOLOGICAL LIMIT VALUES:

Not established

- 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:	DNEL Inhalation mg/m3	DNEL Cutaneous mg/kg bw/d	DNEL Oral mg/kg bw/d
Poly(oxypropylene)diamine	- (a) - (c)	- (a) - (c)	- (a) - (c)
Glycerypoly(oxypropylene)triamine	- (a) - (c)	- (a) - (c)	- (a) - (c)
Diethylmethylbenzenediamine	- (a) 0,13 (c)	- (a) 1 (c)	- (a) - (c)
- DERIVED NO-EFFECT LEVEL, WORKERS:- Local effects, acute and chronic:	DNEL Inhalation mg/m3	DNEL Cutaneous mg/cm2	DNEL Eyes mg/cm2
Poly(oxypropylene)diamine	- (a) - (c)	- (a) - (c)	- (a) - (c)
Glycerypoly(oxypropylene)triamine	- (a) - (c)	- (a) - (c)	- (a) - (c)
Diethylmethylbenzenediamine	- (a) - (c)	- (a) - (c)	- (a) - (c)
- DERIVED NO-EFFECT LEVEL, GENERAL POPULATION:- Systemic effects, acute and chronic:	DNEL Inhalation mg/m3	DNEL Cutaneous mg/kg bw/d	DNEL Eyes mg/kg bw/d
Poly(oxypropylene)diamine	- (a) - (c)	- (a) - (c)	- (a) - (c)
Glycerypoly(oxypropylene)triamine	- (a) - (c)	- (a) - (c)	- (a) - (c)
Diethylmethylbenzenediamine	- (a) 0,1 (c)	- (a) 1 (c)	- (a) 0,1 (c)
- LOCAL EFFECTS, ACUTE AND CHRONIC:- Local effects, acute and chronic:	DNEL Inhalation mg/m3	DNEL Cutaneous mg/cm2	DNEL Eyes mg/cm2
Poly(oxypropylene)diamine	- (a) - (c)	- (a) - (c)	- (a) - (c)
Glycerypoly(oxypropylene)triamine	- (a) - (c)	- (a) - (c)	- (a) - (c)
Diethylmethylbenzenediamine	- (a) - (c)	- (a) - (c)	- (a) - (c)

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

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

- PREDICTED NO-EFFECT CONCENTRATION (PNEC):

- PREDICTED NO-EFFECT CONCENTRATION. AQUATIC ORGANISMS:- Fresh water, marine water and intermittent release:	PNEC Fresh water mg/l	PNEC Marine mg/l	PNEC Intermittent mg/l
Poly(oxypropylene)diamine	-	-	-
Glycerypoly(oxypropylene)triamine	-	-	-
Diethylmethylbenzenediamine	0.0005	0	0.005
- WASTEWATER TREATMENT PLANTS (STP) AND SEDIMENTS IN FRESH- AND MARINE WATER:	PNEC STP mg/l	PNEC Sediments mg/kg dw/d	PNEC Sediments mg/kg dw/d
Poly(oxypropylene)diamine	-	-	-
Glycerypoly(oxypropylene)triamine	-	-	-
Diethylmethylbenzenediamine	17	0.029	0.0029
- PREDICTED NO-EFFECT CONCENTRATION. TERRESTRIAL ORGANISMS:- Air, soil and effects for predators and humans:	PNEC Air mg/m3	PNEC Soil mg/kg dw/d	PNEC Oral mg/kg dw/d
Poly(oxypropylene)diamine	-	-	-
Glycerypoly(oxypropylene)triamine	-	-	-
Diethylmethylbenzenediamine	-	0.0056	2

(-) - 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.

- Protection of respiratory system:

Avoid the inhalation of product.



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- Protection of eyes and face:

Install water taps or sources 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, cleaning, 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:	No.
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.

- 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.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

Physical state: Paste
 Colour: Colourless
 Odour: Characteristic
 Odour threshold: Not available (mixture).

Change of state

Softening point/range: Not available (mixture).
 Initial boiling point: > 200* °C at 760 mmHg

- Flammability:

Flashpoint 128* °C (Pensky-Martens) CLP 2.6.4.3.
 Lower/upper flammability or explosive limits: Not available
 Autoignition temperature: Not applicable.

Stability

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

pH-value

pH: Not applicable

- Viscosity:

Dynamic viscosity: 2600 ± 500 Pa.s at 20°C
 Kinematic viscosity: 891095,3* mm²/s at 40°C

- Solubility(ies):

Solubility in water Immiscible
 Liposolubility: Not applicable (inorganic product).
 Partition coefficient: n-octanol/water: Not applicable (mixture).

- Volatility:

Vapour pressure: 5,0447* mmHg at 20°C
 Vapour pressure: 3,485* kPa at 50°C
 Evaporation rate: Not available (lack of data).

Density

Relative density: 1,750 ± 0,05 at 20/4°C Relative water
 Relative vapour density: Not available.

Particle characteristics

Particle size: Not available.

- Explosive properties:

Not available.

- Oxidizing properties:

Not classified as oxidizing product.

*Estimated values based on the substances composing the mixture.

9.2 OTHER INFORMATION:

Information regarding physical hazard classes

No additional information available.

Other security features:

Heat of combustion: Not applicable.
 Nonvolatile: 98,98 * % Weight 1h. 60°C

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.



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SECTION 10: STABILITY AND REACTIVITY

10.1	REACTIVITY: <u>- Corrosivity to metals:</u> Not available. <u>- Pyrophorical properties:</u> 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: <u>- Heat:</u> Keep away from sources of heat. <u>- Light:</u> If possible, avoid direct contact with sunlight. <u>- Air:</u> The product is not affected by exposure to air, but should not be left the containers open. <u>- Pressure:</u> Not relevant. <u>- Shock:</u> 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.

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. 1272/2008~2021/849 (CLP).			
11.1	<u>INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008 :</u> <u>ACUTE TOXICITY:</u>			
Dose and lethal concentrations for individual ingredients:		DL50 (OECD401) mg/kg bw Oral	DL50 (OECD402) mg/kg bw Cutaneous	CL50 (OECD403) mg/m3·4h Inhalation
Poly(oxypropylene)diamine		480 Rat	2979 Rabbit	
Glycerylpoly(oxypropylene)triamine		> 2000 Rat	> 2000 Rabbit	
Diethylmethylbenzenediamine		738 Rat	1410 Rabbit	> 2450 Rat
Estimates of acute toxicity (ATE) for individual ingredients:		ATE mg/kg bw Oral	ATE mg/kg bw Cutaneous	ATE mg/m3·4h Inhalation
Poly(oxypropylene)diamine		480	-	-
Diethylmethylbenzenediamine		738	*1410	-
(*) - 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.				
<u>- No observed adverse effect level</u> Not available				
<u>- Lowest observed adverse effect level</u> Not available				
<u>INFORMATION ON LIKELY ROUTES OF EXPOSURE: ACUTE TOXICITY:</u>				
Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed	Criteria
Inhalation: Not classified	ATE > 5000 mg/m3	Not available.	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.
Skin: Not classified	ATE > 5000 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.
Eyes: Not classified	Not available.	-	Not classified as a product with acute toxicity by eye contact (lack of data).	GHS/CLP 1.2.5.
Ingestion: 	ATE : 627 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).



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CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
- Respiratory corrosion/irritation: 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.
- Skin corrosion/irritation: 	Skin 	Cat.1C	CORROSIVE: Causes severe skin burns.	GHS/CLP 3.2.3.3.
- Serious eye damage/irritation: 	Eyes 	Cat.1	DAMAGE: Causes serious eye damage.	GHS/CLP 3.3.3.3.
- Respiratory sensitisation: 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.
- Skin sensitisation: Not classified	-	-	Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).	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.

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

- ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed	Criteria
- Aspiration hazard: 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
- Systemic:	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.Causes serious eye damage.

- Long-term or repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

INTERACTIVE EFFECTS:

Not available.

INFORMATION ABOUT TOXICOCINETICS, METABOLISM AND DISTRIBUTION:- Dermal absorption:

Not available.

- Basic toxicokinetics:

Not available.



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ADDITIONAL INFORMATION:

Not available.

11.2 INFORMATION ON OTHER HAZARDS:**Endocrine disrupting properties:**

This product contains substances with endocrine disrupting properties under evaluation in a concentration equal to or greater than 0.1% by weight: Diethylmethylbenzenediamine.

Other information:

No additional information 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. 1272/2008~2021/849 (CLP).

12.1 TOXICITY:

- Acute toxicity in aquatic environment for individual ingredients	CL50 (OECD 203) mg/l · 96hours	CE50 (OECD 202) mg/l · 48hours	CE50 (OECD 201) mg/l · 72hours
Poly(oxypropylene)diamine	15 - Fishes	80 - Daphniae	15 - Algae
Glycerylpoly(oxypropylene)triamine	470 - Fishes		
Diethylmethylbenzenediamine	183 - Fishes	0.5 - Daphniae	104 - Algae

- No observed effect concentration	NOEC (OECD 210) mg/l · 28 days	NOEC (OECD 211) mg/l · 21 days	NOEC (OECD 201) mg/l · 72 hours
Poly(oxypropylene)diamine		0.32 - Daphniae	

- Lowest observed effect concentration

Not available

ASSESSMENT OF AQUATIC TOXICITY:

Aquatic toxicity	Cat.	Main hazards to the aquatic environment	Criteria
- Acute aquatic toxicity:	Cat.1	VERY TOXIC: Very toxic to aquatic life.	GHS/CLP 4.1.3.5.5.3.
- Chronic aquatic toxicity:	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.

12.2 PERSISTENCE AND DEGRADABILITY:**- Biodegradability:**

Not available.

Aerobic biodegradation for individual ingredients	COD mgO ₂ /g	%DBO/DQO 5 days 14 days 28 days	Biodegradabilidad
Poly(oxypropylene)diamine		- - 1	Not easy
Glycerylpoly(oxypropylene)triamine		- - -	Not easy
Diethylmethylbenzenediamine	2370	- - -	Not easy

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

- Hydrolysis:

Not available.

- Photodegradability:

Not available.

12.3 BIOACCUMULATIVE POTENTIAL:

May bioaccumulate.

Bioaccumulation for individual ingredients	logPow	BCF L/kg	Potential
Poly(oxypropylene)diamine	1.34	4.2 (calculated)	Unlikely, low
Glycerylpoly(oxypropylene)triamine			Not available
Diethylmethylbenzenediamine	1.17		Low

12.4 MOBILITY IN SOIL:



Not available

Mobility for individual ingredients	log Pod	Constant of Henry Pa · m ³ /mol 20°C	Potential
Poly(oxypropylene)diamine	0,15		Unlikely, low

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 ENDOCRINE DISRUPTING PROPERTIES:

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	This product contains substances with endocrine disrupting properties under evaluation in a concentration equal to or greater than 0.1% by weight: Diethylmethylbenzenediamine.				
12.7	OTHER ADVERSE EFFECTS: <u>- Ozone depletion potential:</u> Not available. <u>- Photochemical ozone creation potential:</u> Not available. <u>- Earth global warming potential:</u> In case of fire or incineration liberates CO2.				
SECTION 13: DISPOSAL CONSIDERATIONS					
13.1	WASTE TREATMENT METHODS: <u>Directive 2008/98/EC~Regulation (EU) no. 1357/2014:</u> 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. <u>Disposal of empty containers:</u> <u>Directive 94/62/EC~2015/720/EU, Decision 2000/532/EC~2014/955/EU:</u> 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. <u>Procedures for neutralising or destroying the product:</u> Controlled incineration in special facilities for chemical waste, in accordance with local regulations.				
SECTION 14: TRANSPORT INFORMATION					
14.1	UN NUMBER OR ID NUMBER: 2735				
14.2	UN PROPER SHIPPING NAME: AMINES, LIQUID, CORROSIVE, N.O.S. (Poly(oxypropylene)diamine)				
14.3	TRANSPORT HAZARD CLASS(ES): <u>Transport by road (ADR 2021) and Transport by rail (RID 2021):</u> - 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 <u>Transport by sea (IMDG 39-18):</u> - 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. <u>Transport by air (ICAO/IATA 2021):</u> - Class: 8 - Packing group: III - Transport document: Air Bill of lading. <u>Transport by inland waterways (ADN):</u> 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	MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS: Not available.				



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SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

The regulations applicable to this product generally are listed throughout this Safety Data Sheet.

Restrictions on manufacture, placing on market and use:

See section 1.2

Tactile warning of danger:

If the product is intended for the public in general, a tactile danger sign is mandatory. The technical specifications for tactile warning devices shall conform with EN ISO standard 11683 relating to 'Packaging - Tactile warnings of danger - Requirements.'

Child safety protection:

Child-proof fastenings used on reclosable packages shall comply with ISO standard 8317 relating to 'Child resistant packages - Requirements and methods of testing for reclosable packages.' Child-proof fastenings used on non-reclosable packages shall comply with CEN standard EN 862, relating to 'Packaging - Child-resistant packaging - Requirements and testing procedures for non-reclosable packages for non-pharmaceutical products.'

OTHER REGULATIONS:

Control of the risks inherent in major accidents (Seveso III):

See section 7.2

Other 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.

SECTION 16 : OTHER INFORMATION

16.1 TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:

Hazard statements according the Regulation (EU) No. 1272/2008~2021/849 (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. H318 Causes serious eye damage. H319 Causes serious eye 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. H373 May cause damage to organs through prolonged or repeated exposure.

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/>
- European agreement on the international carriage of dangerous goods by road, (ADR 2021).
- 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).
- LC50: Lethal concentration, 50 percent.
- LD50: Lethal dose, 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. 2020/878.

HISTORIC: REVISION:

Version: 3 11/03/2022

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Changes since previous Safety Data Sheet:

Changes that have been introduced with respect to the previous version due to the structural and content adaptation of the Safety Data Sheet to Regulation (EU) No. 2020/878: All sections.

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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 conditionsare 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.