



DANOCLEAN ANTI FUNGI



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

1.1	PRODUCT IDENTIFIER: DANOCLEAN ANTI FUNGI
1.2	RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST: <u>Intended uses (main technical functions):</u> [X] Industrial [X] Professional [] Consumers Product for cleaning. <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 AS FÁLTICOS NORMALIZADOS, S.A. Polígono Industrial, Sector 9 - 19290 Fontanar (Guadalajara) ESPAÑA Phone: +34 949 888 210 - Fax: +34 949 888 223 <u>E-mail address of the person responsible for the Safety Data Sheet:</u> e-mail: info@danosa.com DANOSA ESPAÑA - Polígono Industrial, Sector 9 - 19290 Fontanar (Guadalajara) España - Tel. (+34) 949 888 210 DANOSA ESPAÑA - A-44. Salida 144. - 18640 Padul (Granada) España - Tel. (+34) 958 790 727 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. <u>Classification in accordance with Regulation (EU) No. 1272/2008-2018/1480 (CLP):</u> DANGER: Met. Corr. 1:H290 Skin Corr. 1A:H314 Eye Dam. 1:H318 Aquatic Acute 1:H400 Aquatic Chronic 2:H411					
	Danger class	Classification of the mixture	Cat.	Routes of exposure	Target organs	Effects
	<u>Physicochemical:</u> 	Met. Corr. 1:H290 Skin Corr. 1A:H314 Eye Dam. 1:H318	c) c) c)	Cat.1 Cat.1A Cat.1	- Skin Eyes	- Skin Eyes
	<u>Human health:</u> 	Aquatic Acute 1:H400 Aquatic Chronic 2:H411	c) c)	Cat.1 Cat.2	- -	- -
	<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)					
	<u>Hazard statements:</u> H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.					
	<u>Precautionary statements:</u> 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.					
	<u>Supplementary statements:</u> EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).					



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Substances that contribute to classification:

Sodium hydroxide
Sodium hypochlorite (as active chlorine)

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:

Solution of.

HAZARDOUS INGREDIENTS:

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

5 < 10 %

Sodium hydroxide

CAS: 1310-73-2 , EC: 215-185-5

CLP: Danger: Met. Corr. 1:H290 | Skin Corr. 1A:H314 | Eye Dam. 1:H318

Index No. 011-002-00-6
< Autoclassified

1 < 3 %

Sodium hypochlorite (as active chlorine)

CAS: 7681-52-9 , EC: 231-668-3

CLP: Danger: Met. Corr. 1:H290 | Skin Corr. 1B:H314 | Eye Dam. 1:H318 | STOT SE (irrit.)
3:H335 | Aquatic Acute 1:H400 (M=10) | Aquatic Chronic 1:H410 (M=1) | EUH031

(Note B)

Index No. 017-011-00-1
< Autoclassified

1 < 2 %

Tetrasodium ethylenediaminetetraacetate

CAS: 64-02-8 , EC: 200-573-9

CLP: Danger: Acute Tox. (in h.) 4:H332 | Acute Tox. (oral) 4:H302 | Eye Dam. 1:H318 | STOT
RE 2:H373iR

Index No. 607-428-00-2
< Autoclassified

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.
<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:

In case of fire in the surroundings, all extinguishing agents are allowed.

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:

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 absorbent materials (sawdust, earth, sand, vermiculite, diatomaceous earth, etc.). Keep the remains in a closed container. Do not mix with acids.

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:
The product is not liable to ignite, deflagrate or explode, and does not sustain the combustion reaction by oxygen from air in the environment in which it is, so it is not included in the scope of Directive 2014/34/EU concerning equipment and protective systems intended for use in potentially explosive atmospheres.
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. Keep away from sources of heat. 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.
Class of storage : According to current legislation.
Maximum storage period : 12. months
Temperature interval : min: 5. °C, max: 30. °C (recommended).
Incompatible materials:
 Keep away from reducing agents, oxidizing agents, acids, amines, metals, combustible materials.
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 (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
Sodium hydroxide	1977	-	-	-	2.0C	
Chlorine	2007	-	0.5	-	1.5	

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.

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:

Not available (without data of registration REACH).

DNEL Inhalation
mg/m3

-

DNEL Cutaneous
mg/kg bw/d

-

DNEL Oral
mg/kg bw/d

-

Derived no-effect level, workers:

- Local effects, acute and chronic:

Not available (without data of registration REACH).

DNEL Inhalation
mg/m3

-

DNEL Cutaneous
mg/cm2

-

DNEL Eyes
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 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, 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). 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:

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 : Clear liquid.
- Colour : Yellowish colourless.
- Odour : Characteristic.
- Odour threshold : Not available (mixture).

pH-value

- pH : 13.5 ± 0.5 at 20°C

Change of state

- Melting point : Not available
- Initial boiling point : > 100* °C at 760 mmHg

Density

- Vapour density : Not available
- Relative density : 1.15 ± 0.02 at 20/4°C Relative water

Stability

- Decomposition temperature : Not available

Viscosity:

- Viscosity (flow time) : Not applicable

Volatility:

- Evaporation rate : Not applicable
- Vapour pressure : Not available

Solubility(ies)

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

Flammability:

- Flash point : Not flammable
- Upper/lower flammability or explosive limits : Not available
- Autoignition temperature : Not applicable (do not sustain combustion).

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 : 12.6 % Weight
- Active chlorine : 2.76 % Cl

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: May be corrosive to metals.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, amines, metals, combustible materials.

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.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:

Never mix with acids, acidic compounds, acid-based cleaning products, products containing ammonium, organic products, metals (copper, nickel, cobalt, iron), hydrogen peroxide or reducing agents. .

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 :

Sodium hydroxide

Sodium hypochlorite (as active chlorine)

Tetrasodium ethylenediaminetetraacetate

LD50 (OECD 401)

mg/kg bw oral

340. Rat

> 2000. Rat

1780. Rat

LD50 (OECD 402)

mg/kg bw cutaneous

1350. Rabbit

> 2000. Rabbit

LC50 (OECD 403)

mg/m3-4h inhalation

> 1740. Rat

Estimates of acute toxicity (ATE)

for individual ingredients :

Tetrasodium ethylenediaminetetraacetate

ATE

mg/kg bw oral

1780.

ATE

mg/kg bw cutaneous

-

ATE

mg/m3-4h inhalation

11000.*

(*) - 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	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).	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.1A	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> 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.

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.



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**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: 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: Not available.

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:**Acute toxicity in aquatic environment**

for individual ingredients :

Sodium hydroxide
Sodium hypochlorite (as active chlorine)
Tetrasodium ethylenediaminetetraacetate

LC50 (OECD 203)
mg/l-96hours

> 45. Fishes
0.060 Fishes
> 100. Fishes

EC50 (OECD 202)
mg/l-48hours

> 40. Daphnia
0.035 Daphnia
480. Daphnia

EC50 (OECD 201)
mg/l-72hours

0.050 Algae
310. Algae

No observed effect concentration

Sodium hypochlorite (as active chlorine)

NOEC (OECD 210)
mg/l-28days

0.040 Fishes

NOEC (OECD 211)
mg/l-21days

0.0070 Daphnia

NOEC (OECD 201)
mg/l-72hours

0.0020 Algae

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.2

TOXIC: 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:

Not available.

Aerobic biodegradation
for individual ingredients :

Sodium hydroxide
Tetrasodium ethylenediaminetetraacetate

DQO
mgO2/g

550.

%DBO/DQO
5 days 14 days 28 days

0.
~ 8.

Biodegradability

Not available
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 :

Sodium hypochlorite (as active chlorine)
Tetrasodium ethylenediaminetetraacetate

log Pow

-3.42
-2.60

BCF
L/kg

3.2 (calculated)
1.8 (calculated)

Potential

Not available
Not available

12.4 MOBILITY IN SOIL:

Not available.

Mobility
for individual ingredients :

Sodium hypochlorite (as active chlorine)
Tetrasodium ethylenediaminetetraacetate

log Koc

1.12
-7.26

Constant of Henry
Pa·m3/mol 20°C

0.076 (calculated)

Potential

Not available
Not available



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12.5 RESULTS OF PBT AND VPVBASSESSMENT: 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: 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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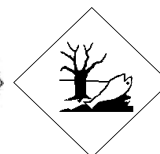


SECTION 14 : TRANSPORT INFORMATION

14.1 UN NUMBER: 326614.2 UN PROPER SHIPPING NAME:
CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (contains sodium hydroxide, in solution)14.3 TRANSPORT HAZARD CLASS(ES):

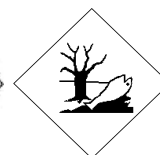
Transport by road (ADR 2019) and
Transport by rail (RID 2019):

- Class: 8
- Packing group: II
- Classification code: C5
- 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): 760
- Marine pollutant: Yes.
- 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:
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.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 1.2

Tactile 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 7.2

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.



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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:

H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H332 Harmful if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. EUH031 Contact with acids liberates toxic gas. H373iR May cause damage to respiratory system through prolonged or repeated exposure if inhaled.

Notes related to the identification, classification and labelling of the substances:

Note B : Some substances are placed on the market in aqueous solutions at various concentrations and these solutions require different classification and labelling since the hazards vary at different concentrations.

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:Revision:

Version: 2

24/09/2019

Version: 3

28/07/2020

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.