

## Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: 4110022380  
Product name: STRONG BILTH WASHER  
UFI : PQ90-40HJ-K00W-EC71

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: Detergent for washing bilge rooms

#### 1.3. Details of the supplier of the safety data sheet

Name: Meccanocar Italia S.r.l.  
Full address: Via San Francesco, 22  
District and Country: 56033 Capannoli (PI)  
Italy

Tel. +39 0587 609433

Fax +39 0587 607145

e-mail address of the competent person

responsible for the Safety Data Sheet: moreno.meini@meccanocar.it  
Supplier:

#### 1.4. Emergency telephone number

For urgent inquiries refer to: National Poisons Information Service: +44 121 507 4123

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Skin corrosion, category 1A	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

## 4110022380 - STRONG BILTH WASHER



Signal words: Danger

Hazard statements:

**H314** Causes severe skin burns and eye damage.

Precautionary statements:

**P260** Do not breathe dust / fume / gas / mist / vapours / spray.

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

**P280** Wear protective gloves/ protective clothing / eye protection / face protection.

**P310** Immediately call a POISON CENTER / doctor.

**P264** Wash hands thoroughly after handling.

Contains:

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM  
SODIUM HYDROXIDE  
AMINE, C12-14 (EVEN NUMBER) -ALKYLDIMETHYL, N-OXIDES  
ALCOHOLS C9-11, ETHOXYLATES

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM</b>		
INDEX 607-428-00-2	$13,5 \leq x < 15$	Acute Tox. 4 H302, Acute Tox. 4 H332, STOT RE 2 H373, Eye Dam. 1 H318
EC 200-573-9		LD50 Oral: 1780 mg/kg, STA Inhalation mists/powders: 1,5 mg/l
CAS 64-02-8		

REACH Reg. 01-2119486762-27-XXXX		
ALCOHOLS C9-11, ETHOXYLATES		
INDEX -	4,5 ≤ x < 5	Eye Irrit. 2 H319
EC 614-482-0		
CAS 68439-46-3		
AMINE, C12-14 (EVEN NUMBER) - ALKYLDIMETHYL, N-OXIDES		
INDEX -	4,5 ≤ x < 5	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411 STA Oral: 500 mg/kg
EC 931-292-6		
CAS 308062-28-4		
REACH Reg. 01-2119490061-47-XXXX		
2-BUTOXYETHANOL		
INDEX 603-014-00-0	4,5 ≤ x < 5	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 203-905-0		LD50 Oral: 615 mg/kg
CAS 111-76-2		
REACH Reg. 01-2119475108-36-XXXX		
SODIUM HYDROXIDE		
INDEX 011-002-00-6	4,5 ≤ x < 5	Skin Corr. 1A H314, Eye Dam. 1 H318
EC 215-185-5		Skin Corr. 1B H314: ≥ 2%, Skin Irrit. 2 H315: ≥ 0,5%, Eye Dam. 1 H318: ≥ 2%, Eye Irrit. 2 H319: ≥ 0,5%
CAS 1310-73-2		
REACH Reg. 01-2119457892-27-XXXX		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

**4110022380 - STRONG BILTH WASHER****SUITABLE EXTINGUISHING EQUIPMENT**

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

**UNSUITABLE EXTINGUISHING EQUIPMENT**

None in particular.

**5.2. Special hazards arising from the substance or mixture****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Do not breathe combustion products.

**5.3. Advice for firefighters****GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**6.3. Methods and material for containment and cleaning up**

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

**7.2. Conditions for safe storage, including any incompatibilities**

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LTU	Lietuva	Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		2						
TLV-ACGIH		10				INHAL		
TLV-ACGIH		3				RESP		
Predicted no-effect concentration - PNEC								
Normal value in fresh water				2,2		mg/l		
Normal value in marine water				0,22		mg/l		
Normal value for water, intermittent release				1,2		mg/l		
Normal value of STP microorganisms				43		mg/l		
Normal value for the terrestrial compartment				0,72		mg/kg		
Health - Derived no-effect level - DNEL / DMEL								
		Effects on consumers			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				25 mg/kg bw/d				
Inhalation		1,2 mg/m3		0,6 mg/m3		3 mg/m3		1,5 mg/m3
SODIUM HYDROXIDE								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		

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		mg/m3	ppm	mg/m3	ppm			
VLA	ESP			2				
VLEP	FRA	2						
RD	LTU			2 (C)				
TLV	NOR	2						
NDS/NDSch	POL	0,5		1				
WEL	GBR			2				
TLV-ACGIH				2 (C)				
<b>Health - Derived no-effect level - DNEL / DMEL</b>								
		Effects on consumers			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation				1 mg/m3				1 mg/m3
<b>2-BUTOXYETHANOL</b>								
<b>Threshold Limit Value</b>								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP	98	20	245	50	SKIN		
VLEP	FRA	49	10	246	50	SKIN		
VLEP	ITA	98	20	246	50	SKIN		
RD	LTU	50	10	100	20	SKIN		
TLV	NOR	50	10			SKIN		
VLE	PRT	98	20	246	50	SKIN		
NDS/NDSch	POL	98		200		SKIN		
WEL	GBR	123	25	246	50	SKIN		
OEL	EU	98	20	246	50	SKIN		
TLV-ACGIH		97	20					
<b>Predicted no-effect concentration - PNEC</b>								
Normal value in fresh water				8,8		mg/l		
Normal value in marine water				0,88		mg/l		
Normal value for fresh water sediment				34,6		mg/kg		
Normal value for marine water sediment				3,46		mg/kg		
Normal value of STP microorganisms				463		mg/l		
Normal value for the food chain (secondary poisoning)				0,02		mg/kg		
Normal value for the terrestrial compartment				2,33		mg/kg		
<b>Health - Derived no-effect level - DNEL / DMEL</b>								
		Effects on consumers			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		26,7 mg/kg bw/d		6,3 mg/kg bw/d				
Inhalation	147 mg/m3	426 mg/m3		59 mg/m3	246 mg/m3			98 mg/m3
Skin		89 mg/kg/d		75 mg/kg bw/d		89 mg/kg bw/d		125 mg/kg bw/d
<b>AMINE, C12-14 (EVEN NUMBER) -ALKYLDIMETHYL, N-OXIDES</b>								

Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,034	mg/l			
Normal value in marine water				0,003	mg/l			
Normal value for fresh water sediment				5,24	mg/kg			
Normal value for marine water sediment				0,524	mg/kg			
Normal value of STP microorganisms				24	mg/l			
Normal value for the food chain (secondary poisoning)				11,1	mg/kg			
Normal value for the terrestrial compartment				1,02	mg/kg			
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers			Chronic systemic	Effects on workers			Chronic systemic
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	
Oral				0,44 mg/kg bw/d				
Inhalation				1,53 mg/m3				6,2 mg/m3
Skin				5,5 mg/kg bw/d				11 mg/kg bw/d
ALCOHOLS C9-11, ETHOXYLATES								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,104	mg/l			
Normal value in marine water				0,104	mg/l			
Normal value for fresh water sediment				13,7	mg/kg			
Normal value for marine water sediment				13,7	mg/kg			
Normal value of STP microorganisms				1,4	mg/l			
Normal value for the terrestrial compartment				1	mg/kg			
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers			Chronic systemic	Effects on workers			Chronic systemic
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	
Oral				25 mg/kg bw/d				
Inhalation				87 mg/m3				294 mg/m3
Skin				1250 mg/kg bw/d				2080 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

**8.2. Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

## HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

## SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

## EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

## RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

## ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Suitable materials also with prolonged direct contact (Recommended: protection index 6, corresponding to > 480 minutes of breakthrough time according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm).

## AMINE, C12-14 (EVEN NUMBER) -ALKYLDIMETHYL, N-OXIDES

The glove material has to be impermeable and resistant to the product / the substance / the Preparation. PVC gloves

## ALCOHOLS C9-11, ETHOXYLATES

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	



Colour	yellow
Odour	characteristic
Melting point / freezing point	not available
Initial boiling point	not available
Flammability	not available
Lower explosive limit	not available
Upper explosive limit	not available
Flash point	> 60 °C
Auto-ignition temperature	not available
Decomposition temperature	not available
pH	11,89
Kinematic viscosity	not available
Solubility	soluble in water
Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	1,12
Relative vapour density	not available
Particle characteristics	not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

2-BUTOXYETHANOL

Decomposes under the effect of heat.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Decomposition temperature> 150 ° C

## 4110022380 - STRONG BILTH WASHER

## SODIUM HYDROXIDE

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

No hazardous reactions are foreseeable in normal conditions of use and storage.

## ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

It can corrode metals in the presence of water or moisture

## SODIUM HYDROXIDE

- Emits hydrogen by reaction with metals.
- Exothermic reaction with strong acids.
- Risk of violent reaction.
- Risk of explosion.
- Reacts violently with water.

## 2-BUTOXYETHANOL

May react dangerously with: aluminium, oxidising agents. Forms peroxides with: air.

**10.4. Conditions to avoid**

None in particular. However the usual precautions used for chemical products should be respected.

## SODIUM HYDROXIDE

Avoid exposure to: air, moisture, sources of heat.

- Far from direct sunlight.
- To avoid thermal decomposition, do not overheat.
- Exposure to humidity.
- Freezing

## 2-BUTOXYETHANOL

Avoid exposure to: sources of heat, naked flames.

High temperatures and sources of ignition. Prolonged exposure with air / oxygen and light.

## AMINE, C12-14 (EVEN NUMBER) -ALKYLDIMETHYL, N-OXIDES

To avoid thermal decomposition, do not overheat.

**4110022380 - STRONG BILTH WASHER****10.5. Incompatible materials**

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Oxidizing agents, amphoteric metals and light metals

SODIUM HYDROXIDE

Incompatible with: strong acids, ammonia, zinc, lead, aluminium, water, flammable liquids.

Metals, oxidizing agents, water, acids, aluminum, other light metals and their alloys.

2-BUTOXYETHANOL

Oxidizing agents.

AMINE, C12-14 (EVEN NUMBER) -ALKYLDIMETHYL, N-OXIDES

Dangerous reactions

Reacts with acids, alkalis and oxidizing agents.

ALCOHOLS C9-11, ETHOXYLATES

Acids, alkalines, caustics, halogens, reactive chemicals.

**10.6. Hazardous decomposition products**

2-BUTOXYETHANOL

May develop: hydrogen.

Carbon oxides.

AMINE, C12-14 (EVEN NUMBER) -ALKYLDIMETHYL, N-OXIDES

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)**SECTION 11. Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

LD50 (Oral):	1780 mg/kg Ratto (equivalente o similare a OECD 401)
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SODIUM HYDROXIDE

LD50 (Dermal):	1350 mg/kg Rat
LD50 (Oral):	1350 mg/kg Rat

2-BUTOXYETHANOL

LD50 (Dermal):	405 mg/kg Rabbit
LD50 (Oral):	615 mg/kg Rat
LC50 (Inhalation vapours):	2,2 mg/l/4h Rat

AMINE, C12-14 (EVEN NUMBER) -ALKYLDIMETHYL, N-OXIDES

STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
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ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Method: equivalent or similar to OECD 401  
Reliability: 2  
Species: Rat (Wistar; male / female)  
Route of exposure: oral

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<div>Results: LD50 = 1780 mg / kg</div> <div>Method: OECD 412</div> <div>Reliability: 1</div> <div>Species: Rat (wistar; male)</div> <div>Route of exposure: inhalation (aerosol)</div> <div>Results: harmful by inhalation</div> <div><div>2-BUTOXYETHANOL</div><div>Method: OECD 401</div><div>Reliability: 1</div><div>Species: guinea pig (Hartley; male / female)</div><div>Route of exposure: Oral</div><div>Results: LD50 = 1414 mg / kg bw</div><div>Method: CFR title 49, section 173.132</div><div>Reliability: 2</div><div>Species: Guinea pig (Dunkin-Hartley; male / female)</div><div>Route of exposure: Inhalation (vapor)</div><div>Results: Not classified</div><div>Method: OECD 402</div><div>Reliability: 1</div><div>Species: guinea pig (Hartley; male / female)</div><div>Route of exposure: Dermal</div><div>Results: Not classified</div></div> <div><div>AMINE, C12-14 (EVEN NUMBER) -ALKYLDIMETHYL, N-OXIDES</div><div>Method: OECD Guideline 401</div><div>Reliability: 2</div><div>Species: Rat (Sprague-Dawley; male / female)</div><div>Route of exposure: Oral</div><div>Results: LD50 3 800 mg / kg bw</div><div>Method: EU Method B.3</div><div>Reliability: 2</div><div>Species: Rat (CD / Crl: CD (SD); male / female)</div><div>Route of exposure: Dermal</div><div>Results: LD50&gt; 2 000 mg / kg bw</div></div> <div><div>ALCOHOLS C9-11, ETHOXYLATES</div><div>Method: Equivalent or similar to OECD 401</div><div>Reliability: 2</div><div>Species: Rat (Wistar; male / female)</div><div>Route of exposure: Oral</div><div>Results: LD50 = 3488 mg / kg bw</div></div> <div><div>SKIN CORROSION / IRRITATION</div><div>Corrosive for the skin</div><div>Classification according to the experimental Ph value</div></div> <div><div>ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM</div><div>Method: OECD 404</div><div>Reliability: 1</div><div>Species: Rabbit (Vienna White)</div><div>Route of exposure: cutaneous</div><div>Results: not irritating</div></div>	

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SODIUM HYDROXIDE  
Method: Not indicated  
Reliability: 1  
Human species  
Route of exposure: Dermal  
Results: Irritating  
Bibliographic reference: York M, Griffiths E, Whittle E and Basketter DA, Evaluation of a human patch test for the identification and classification of skin irritation potential (1996)

2-BUTOXYETHANOL  
Method: EU Method B.4  
Reliability: 2  
Species: Rabbit (New Zealand white; male / female)  
Route of exposure: Dermal  
Results: Irritating  
Bibliographic reference: Jacobs G, Martens M, Mosselmans G, Proposal of limit concentrations for skin irritation within the context of a new EEC directive on the classification and labeling of preparations. (1987)

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM  
Method: equivalent or similar to OECD 405  
Reliability: 2  
Species: Rabbit (Vienna White)  
Route of exposure: ocular  
Results: causes serious eye damage (Harmonized classification, Annex VI, CLP Reg.)

SODIUM HYDROXIDE  
Method: OECD 405  
Reliability: 1  
Species: Rabbit (New Zealand White)  
Route of exposure: Ocular  
Results: Irritating  
Bibliographic reference: Jacobs GA, OECD Eye Irritation Tests on Sodium Hydroxide (1992)

2-BUTOXYETHANOL  
Method: OECD 405  
Reliability: 1  
Species: Rabbit (New Zealand white; male / female)  
Route of exposure: Ocular  
Results: Irritating

AMINE, C12-14 (EVEN NUMBER) -ALKYLDIMETHYL, N-OXIDES  
Method: OECD Guideline 405  
Reliability: 2  
Species: Rabbit (New Zealand White)  
Route of exposure: Ocular  
Results: Positive, category 1

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Method: OECD 406 - Read across  
Reliability: 1  
Species: guinea pig (Hartley; female)  
Route of exposure: cutaneous  
Results: non sensitizing

SODIUM HYDROXIDE

Method: According to the OECD SIDS document for sodium hydroxide  
Reliability: 2  
Species: Human (male)  
Route of exposure: Dermal  
Results: Not sensitizing  
Bibliographic reference: Park et al., Journal of Dermatological Science, 10, 159-165 (1995).

2-BUTOXYETHANOL

Method: OECD 406  
Reliability: 1  
Species: Guinea pig (Dunkin-Hartley; male / female)  
Route of exposure: Dermal  
Results: Not sensitizing  
Method: Equivalent or similar to OECD 474-Test in vivo  
Reliability: 1  
Species: Mouse (B6C3F1)  
Results: Negative

Skin sensitization

ALCOHOLS C9-11, ETHOXYLATES

Method: Equivalent or similar to OECD 406  
Reliability: 2  
Species: guinea pig (Variety of the breeding unit 'P'; male / female)  
Route of exposure: Dermal  
Results: Not sensitizing

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM

Method: equivalent or similar to 471 - In vitro test  
Reliability: 2

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<div><div>Species: S. typhimurium, E.Coli</div><div>Results: negative with and without metabolic activation</div><div>Method: OECD 474 - in vivo test</div><div>Reliability: 1</div><div>Species: Mouse (NMRI; male)</div><div>Route of exposure: oral</div><div>Results: negative.</div></div> <div><div>2-BUTOXYETHANOL</div><div>Method: Equivalent or similar to OECD 471 in vitro test</div><div>Reliability: 1</div><div>Species: S. typhimurium TA 1535</div><div>Results: negative</div><div>Bibliographic reference:</div><div>Method: Equivalent or similar to OECD 474-Test in vivo</div><div>Reliability: 1</div><div>Species: Mouse (B6C3F1)</div><div>Results: Negative</div></div> <div><div>AMINE, C12-14 (EVEN NUMBER) -ALKYLDIMETHYL, N-OXIDES</div><div>Method: OECD Guideline 487_test in vitro</div><div>Reliability: 1</div><div>Species: Human</div><div>Results: Negative</div><div>Method: Equivalent or similar to OECD Guideline 478-test in vivo</div><div>Reliability: 2</div><div>Species: mouse (C3D2F1 / J; male)</div><div>Route of exposure: Oral</div><div>Results: Negative</div></div> <div><div>ALCOHOLS C9-11, ETHOXYLATES</div><div>Method: OECD 471-in vitro test-Read across</div><div>Reliability: 2</div><div>Species: S. typhimurium</div><div>Results: Negative with and without metabolic activation</div></div> <div><div>CARCINOGENICITY</div><div>Does not meet the classification criteria for this hazard class</div></div> <div><div>ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM</div><div>Method: study report (1977)</div><div>Reliability: 2</div><div>Species: Mouse (B6C3F1; male / female)</div><div>Route of exposure: oral</div><div>Results: negative. NOAEL (carcinogenicity) = 938 mg / kg bw / day</div></div> <div><div>AMINE, C12-14 (EVEN NUMBER) -ALKYLDIMETHYL, N-OXIDES</div><div>Method: Equivalent or similar to OECD Guideline 451</div><div>Reliability: 1</div><div>Species: Rat (Charles River; male / female)</div><div>Route of exposure: Oral</div><div>Results: NOEL 0.2</div></div>	



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<div>REPRODUCTIVE TOXICITY</div> <div>Does not meet the classification criteria for this hazard class</div> <div>ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM</div> <div>Method: Not indicated</div> <div>Reliability: 2</div> <div>Species: Rat (Wistar; male / female)</div> <div>Route of exposure: oral</div> <div>Results: negative. NOAEL (reproduction)&gt; = 250 mg / kg body weight / day</div> <div>Bibliographic reference: Oser, B.L. et al., Toxicology and applied pharmacology (1963)</div> <div>Method: not indicated</div> <div>Reliability: 2</div> <div>Species: Rat (Albino)</div> <div>Route of exposure: oral</div> <div>Results: negative. NOAEL (development, fetus)&gt; = 1 374 mg / kg body weight / day</div> <div>Bibliographic reference: Schardein, J.L. et alb, Toxicology and Applied Pharmacology (1981)</div> <div>2-BUTOXYETHANOL</div> <div>Method: Not indicated</div> <div>Reliability: 1</div> <div>Species: Mouse (CD-1; male / female)</div> <div>Route of exposure: Oral</div> <div>Results: NOAEL = 720 mg / kg bw / day</div> <div>Bibliographic reference: Heindel JJ, Gulati DK, Russel VS, Reel JR, Lawton AD and Lamb JC, Assessment of Ethylene Glycol Monobutyl and monophenol Ether reproductive toxicity using a continuous breeding protocol in Swiss CD-1 mice (1990).</div> <div>Adverse effects on sexual function and fertility</div> <div>ALCOHOLS C9-11, ETHOXYLATES</div> <div>Method: Equivalent or similar to OECD 416</div> <div>Reliability: 2</div> <div>Species: Rat (Fischer 344; male / female)</div> <div>Route of exposure: Dermal</div> <div>Results: NOAEL (fertility)&gt; = 250 mg / kg bw / day</div> <div>Adverse effects on development of the offspring</div> <div>ALCOHOLS C9-11, ETHOXYLATES</div> <div>Method: Equivalent or similar to OECD 416</div> <div>Reliability: 2</div> <div>Species: Rat (Fischer 344)</div> <div>Route of exposure: Dermal</div> <div>Results: NOAEL (development)&gt; = 250 mg / kg bw / day</div> <div>STOT - SINGLE EXPOSURE</div>	

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<p>Does not meet the classification criteria for this hazard class</p> <p>ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.</p> <p>SODIUM HYDROXIDE Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.</p> <p>2-BUTOXYETHANOL Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.</p> <p>AMINE, C12-14 (EVEN NUMBER) -ALKYLDIMETHYL, N-OXIDES Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.</p> <p>ALCOHOLS C9-11, ETHOXYLATES Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.</p> <p><u>STOT - REPEATED EXPOSURE</u></p> <p>Does not meet the classification criteria for this hazard class</p> <p>ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM Method: Not indicated-Read across Reliability: 2 Species: Rat (Holtzman; male) Route of exposure: Oral Results: Negative, NOAEL&gt; = 500 mg / kg bw / day Bibliographical reference: The Toxicity and Pharmacodynamics of EGTA: Oral Administration to Rats and Comparisons with EDTA, Wynn, J.E. et al (1970) Method: OECD 413 Reliability: 1 Species: Rat (Wistar; male / female) Route of exposure: Inhalation (dust) Results: Negative, NOAEC = 3 mg / m3 air</p> <p>SODIUM HYDROXIDE Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for prolonged or repeated exposure.</p> <p>2-BUTOXYETHANOL Method: Equivalent or similar to OECD 408 Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Oral Results: Negative, NOAEL &lt;69 mg / kg bw Method: Equivalent or similar to OECD 453</p>	

Reliability: 1  
Species: Rat (Fischer 344; male / female)  
Route of exposure: Inhalation (vapors)  
Results: Negative, NOAEC <31 ppm  
Method: Equivalent or similar to OECD 411  
Reliability: 1  
Species: Rabbit (New Zealand White; male / female)  
Route of exposure: Dermal  
Results: Negative; NOAEL> 150 mg / kg bw / day

ALCOHOLS C9-11, ETHOXYLATES  
Method: Equivalent or similar to OECD 408-Read across  
Reliability: 2  
Species: Rat (Wistar; male / female)  
Route of exposure: Oral  
Results: NOAEL> = 500 mg / kg bw / day

Target organs

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM  
Respiratory tract

Route of exposure

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM  
Inhalation

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**SECTION 12. Ecological information**

**12.1. Toxicity**

AMINE, C12-14 (EVEN NUMBER) - ALKYLDIMETHYL, N-OXIDES	
LC50 - for Fish	2,67 mg/l/96h
EC50 - for Crustacea	3,1 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,143 mg/l/72h
LC10 for Fish	0,42 mg/l/96h

EC10 for Crustacea	0,7 mg/l/28d
EC10 for Algae / Aquatic Plants	0,067 mg/l/72h
Chronic NOEC for Fish	0,42 mg/l
Chronic NOEC for Crustacea	0,7 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,067 mg/l

12.2. Persistence and degradability

ETHYLENDIAMMINOTETRAACETATE OF TETRASODIUM  
Not rapidly degradable, 0-10% in 28 days (OECD 302 B)

2-BUTOXYETHANOL

Easily degradable.

ALCOHOLS C9-11, ETHOXYLATES

Easily degradable in water, 71-100% in 28 days.

2-BUTOXYETHANOL

Solubility in water	1000 - 10000 mg/l
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Rapidly degradable  
SODIUM HYDROXIDE

Solubility in water	> 10000 mg/l
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Degradability: information not available

12.3. Bioaccumulative potential

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water	0,81
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12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SODIUM HYDROXIDE**

- Dilute with plenty of water.
- Solutions with a high pH value must be neutralized before discharging.
- Neutralize with acid.
- In accordance with local and national regulations.

**2-BUTOXYETHANOL**

Dispose of as hazardous waste. Recover or recycle if possible. Otherwise incineration. Dispose according to local regulations.

**ALCOHOLS C9-11, ETHOXYLATES**

They must be disposed of or incinerated in accordance with local regulations.

**SECTION 14. Transport information****14.1. UN number or ID number**

ADR / RID, IMDG, IATA: 1760

**14.2. UN proper shipping name**

ADR / RID: CORROSIVE LIQUID, N.O.S.  
IMDG: CORROSIVE LIQUID, N.O.S.  
IATA: CORROSIVE LIQUID, N.O.S.

**14.3. Transport hazard class(es)**

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8

**14.4. Packing group**

ADR / RID, IMDG, IATA: III

**14.5. Environmental hazards**

ADR / RID: NO  
IMDG: NO  
IATA: NO

**14.6. Special precautions for user**

ADR / RID: HIN - Kemler: 80

Limited  
Quantities: 5  
L

Tunnel  
restriction  
code: (E)

IMDG:	Special provision: 274 EMS: F-A, S-B	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 856
	Passengers:	Maximum quantity: 5 L	Packaging instructions: 852
	Special provision:	A3, A803	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product	
Point	3

Contained substance	
Point	75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

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None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1A	Skin corrosion, category 1A
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

- LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
  - ATE: Acute Toxicity Estimate
  - CAS: Chemical Abstract Service Number
  - CE50: Effective concentration (required to induce a 50% effect)
  - CE: Identifier in ESIS (European archive of existing substances)
  - CLP: Regulation (EC) 1272/2008
  - DNEL: Derived No Effect Level
  - EmS: Emergency Schedule
  - GHS: Globally Harmonized System of classification and labeling of chemicals
  - IATA DGR: International Air Transport Association Dangerous Goods Regulation
  - IC50: Immobilization Concentration 50%
  - IMDG: International Maritime Code for dangerous goods
  - IMO: International Maritime Organization
  - INDEX: Identifier in Annex VI of CLP
  - LC50: Lethal Concentration 50%
  - LD50: Lethal dose 50%
  - OEL: Occupational Exposure Level
  - PBT: Persistent bioaccumulative and toxic as REACH Regulation
  - PEC: Predicted environmental Concentration

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- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
  19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
  20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
  21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
  22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.