SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

EN JEE

Creation date	10th August 2000		
Revision date	15th December 2022	Version	2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier EN JEE

Substance / mixture mixture

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

Mixture's intended use

Product designed for daily cleaning of the wheel rims and wheel trims.

Mixture uses advised against

not available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Name or trade name	TENZI Sp. z o.o.
Address	Skarbimierzyce 20, Dołuje, 72-002 Poland
VAT Reg No	PL8512583405
Phone	+48 91 3119777
E-mail	info@tenzi.pl
Web address	www.tenzi.pl

Competent person responsible for the safety data sheet

Name	technolog@tenzi.pl
E-mail	technolog@tenzi.pl

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Skin Corr. 1B, H314
Eye Dam. 1, H318

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment

Causes serious eye damage. Causes severe skin burns and eye damage.

2.2. Label elements

Hazard pictogram

Signal word

Danger

Hazardous substances

Quaternary coco alkyl methyl amine ethoxylate methyl chloride
Alcohols, C12-13, ethoxylated
sodium hydroxide

Hazard statements

H314	Causes severe skin burns and eye damage.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.

Supplemental information

5-<15 % cationic surfactants, <5 % phosphonates, <5 % amphoteric surfactants, <5 % non-ionic surfactants

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 863679-20-3 Registration number: polimer	Quaternary coco alkyl methyl amine ethoxylate methyl chloride	<6	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318	
CAS: 160901-19-9 EC: 931-954-4 Registration number: polimer	Alcohols, C12-13, ethoxylated	<5	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1, H318: C > 10 % Eye Irrit. 2, H319: 1 % < C ≤ 10 %	
Index: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 Registration number: 01-2119457892-27-XXXX	sodium hydroxide	<4	Met. Corr. 1, H290 Skin Corr. 1A, H314 Specific concentration limit: Skin Corr. 1B, H314: 2 % ≤ C < 5 % Skin Corr. 1A, H314: C ≥ 5 % Eye Irrit. 2, H319: 0,5 % ≤ C < 2 % Skin Irrit. 2, H315: 0,5 % ≤ C < 2 %	
EC: 931-513-6 Registration number: 01-2119513359-38-XXXX	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18 (even numbered) acyl) derivs., hydroxides, inner salts	<3	Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1, H318: C > 10 % Eye Irrit. 2, H319: 4 % < C ≤ 10 %	
CAS: 2809-21-4 EC: 220-552-8 Registration number: 01-2119510391-53-XXXX	etidronic acid	<2	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water/shower. Rinse cautiously with water for several minutes.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

DO NOT INDUCE VOMITING - even the inducted vomiting can cause complications as in case of detergents and other foaming substances. Danger of esophageal and gastric perforation! RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system.

If on skin

Causes severe skin burns.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale aerosols. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in a tightly closed, original plastic container (high density polyethylene HDPE). Store this product in a dry environment that will be maintained at 5°C - 35°C temperature with a good ventilation system and an easy washable, nonabsorbable alkaline resistant floor. DO NOT expose the product to sunlight and keep away from heat, frost, sparks, flame and source of ignition.

Content	Packaging type	Material of package
1000 ml	bottle	HDPE

Storage temperature min 5 °C, max 35 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

DNEL

etidronic acid

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	6.5 mg/kg	Systemic chronic effects		SDS
Consumers	Oral	6.5 mg/kg	Systemic acute effects		SDS

sodium hydroxide

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	1.0 mg/m³	Local chronic effects		SDS
Consumers	Inhalation	1.0 mg/m³	Local chronic effects		SDS

PNEC

etidronic acid

Route of exposure	Value	Value determination	Source
Drinking water	0.136 mg/l		SDS
Seawater	0.014 mg/l		SDS
Microorganisms in wastewater treatment plants	20 mg/l		SDS
Freshwater sediment	59 mg/kg		SDS

etidronic acid

Route of exposure	Value	Value determination	Source
Sea sediments	5.9 mg/kg		SDS
Soil (agricultural)	96 mg/kg		SDS
Oral	0.012 mg/kg		SDS

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Contaminated skin should be washed thoroughly.

Respiratory protection

It is not needed.

Thermal hazard

Data not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	brown
Odour	Characteristic for the materials used
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	14 (undiluted at 20 °C)
Kinematic viscosity	data not available
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Relative density	1,070 g/cm3 (+-) 0,020
Form	brown liquid

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Skin	LD_{50}	>620 mg/kg		Rat (Rattus norvegicus)	F/M	Based on evidence	karta charakterystyki
Oral	LD_{50}	2430 mg/kg		Rat (Rattus norvegicus)	F/M	Based on evidence	karta charakterystyki

Alcohols, C12-13, ethoxylated

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD_{50}	>300-2000 mg/kg		Rat (Rattus norvegicus)			karta charakterystyki
Skin	LD_{50}	>2000 mg/kg		Rabbit	F/M		karta charakterystyki

etidronic acid

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD_{50}	3200 mg/kg		Rat (Rattus norvegicus)		Based on evidence	karta charakterystyki
Inhalation	LD_{50}	3000 mg/kg		Rat (Rattus norvegicus)		Based on evidence	karta charakterystyki

Quaternary coco alkyl methyl amine ethoxylate methyl chloride

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD_{50}	>300-2000 mg/kg		Rat (Rattus norvegicus)			karta charakterystyki

sodium hydroxide

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Intraperitoneally	LD_{50}	40 mg/kg		Mouse			SDS
Oral	LDL0	500 mg/kg		Rabbit			SDS
Oral	TDLo	44 mg/kg		Rat (Rattus norvegicus)			SDS

Skin corrosion/irritation

Causes severe skin burns and eye damage.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Route of exposure	Result	Exposure time	Species	Value determination	Source
	Not irritating			Based on evidence	karta charakterystyki

Alcohols, C12-13, ethoxylated

Route of exposure	Result	Exposure time	Species	Value determination	Source
Skin	Not irritating		Rabbit		karta charakterystyki

etidronic acid

Route of exposure	Result	Exposure time	Species	Value determination	Source
	Irritating			Based on evidence	karta charakterystyki

Quaternary coco alkyl methyl amine ethoxylate methyl chloride

Route of exposure	Result	Exposure time	Species	Value determination	Source
Dermal	Irritating			Based on evidence	karta charakterystyki

Serious eye damage/irritation

Causes serious eye damage. Causes severe skin burns and eye damage.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Route of exposure	Result	Exposure time	Species	Value determination	Source
	Serious eye damage			Based on evidence	karta charakterystyki

Alcohols, C12-13, ethoxylated

Route of exposure	Result	Exposure time	Species	Value determination	Source
Eye	Serious eye damage		Rabbit		karta charakterystyki

etidronic acid

Route of exposure	Result	Exposure time	Species	Value determination	Source
	Serious eye damage			Based on evidence	karta charakterystyki

Quaternary coco alkyl methyl amine ethoxylate methyl chloride

Route of exposure	Result	Exposure time	Species	Value determination	Source
Eye	Serious eye damage			Based on evidence	karta charakterystyki

Sensitization

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
Skin	No effect	OECD 406		Guinea-pig (Cavia aperea f. porcellus)		Based on evidence	karta charakterystyki

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Alcohols, C12-13, ethoxylated

Route of exposure	Result	Exposure time	Species	Sex	Value determination	Source
Skin	No effect		Guinea-pig (Cavia aperea f. porcellus)	F/M		karta charaktery styki

etidronic acid

Route of exposure	Result	Exposure time	Species	Sex	Value determination	Source
	No effect				Based on evidence	karta charaktery styki

Quaternary coco alkyl methyl amine ethoxylate methyl chloride

Route of exposure	Result	Exposure time	Species	Sex	Value determination	Source
Inhalation	Not sensitizing				Based on evidence	karta charaktery styki

Mutagenicity

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
Negative	OECD 471					Based on evidence	karta charakterystyki
Negative	OECD 476					Based on evidence	karta charakterystyki
Negative	OECD 474					Based on evidence	karta charakterystyki

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Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
Negative						Based on evidence	karta charakterystyki

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Alcohols, C12-13, ethoxylated

Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
No effect	in vivo				F/M		karta charakterystyki

Quaternary coco alkyl methyl amine ethoxylate methyl chloride

Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination	Source
Negative						Based on evidence	karta charakterystyki

Carcinogenicity

Based on available data the classification criteria are not met.

Alcohols, C12-13, ethoxylated

Route of exposure	Parameter	Value	Result	Species	Sex	Value determination	Source
			Not carcinogenic		F/M		karta charaktery styki

etidronic acid

Route of exposure	Parameter	Value	Result	Species	Sex	Value determination	Source
			Not carcinogenic			Based on evidence	karta charaktery styki

Reproductive toxicity

Based on available data the classification criteria are not met.

Alcohols, C12-13, ethoxylated

Effect	Parameter	Method	Value	Result	Species	Sex	Source
		in vitro		No effect		F/M	karta charaktery styki
Effects on fertility				No effect		F/M	karta charaktery styki

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Alcohols, C12-13, ethoxylated

Route of exposure	Parameter	Value	Result	Species	Sex	Value determination	Source
			No effect				karta charaktery styki

etidronic acid

Route of exposure	Parameter	Value	Result	Species	Sex	Value determination	Source
			Negative			Based on evidence	karta charaktery styki

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Alcohols, C12-13, ethoxylated

Route of exposure	Parameter	Value	Exposure time	Specific target organ	Result	Species	Sex	Source
Oral	NOAEL	50 mg/kg	2 year	Heart	Reduced body weight	Rat (Rattus norvegicus)	F/M	karta charakterystyki

Repeated dose toxicity

etidronic acid

Route of exposure	Parameter	Result	Value	Exposure time	Species	Sex	Value determination	Source
		Negative					Based on evidence	karta charakterystyki

Aspiration hazard

Based on available data the classification criteria are not met.

etidronic acid

Route of exposure	Result	Exposure time	Species	Sex	Value determination	Source
	Negative				Based on evidence	karta charaktery styki

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC_{50}	OECD 202	1.9 mg/l	48 hour	Daphnia (Daphnia magna)		Based on evidence	karta charakterystyki
ErC_{50}		2.4 mg/kg	72 hour	Algae and other aquatic plants		Indicator of growth	karta charakterystyki
ErC_{50}		7 mg/l	72 hour	Daphnia (Daphnia magna)		Indicator of growth	karta charakterystyki
LC_{50}	OECD 203	1.11 mg/l	96 hour	Fishes (Oncorhynchus mykiss)			karta charakterystyki

Alcohols, C12-13, ethoxylated

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC_{50}	OECD 203	>1-10 mg/l	96 hour	Fishes (Poecilia reticulata)		Literary studies	karta charakterystyki
EC_{50}	OECD 202	>1-10 mg/l	48 hour	Daphnia (Daphnia magna)		Literary studies	karta charakterystyki

Alcohols, C12-13, ethoxylated

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC_{50}	OECD 201	>1-10 mg/l	72 hour	Algae (Selenastrum capricornutum)		Literary studies, Observation method, Indicator of growth	karta charakterystyki
NOEC	OECD 201	>1-10 mg/l	72 hour	Algae (Selenastrum capricornutum)		Literary studies, Indicator of growth	karta charakterystyki
EC_{50}		140 mg/l		Bacteria (Salmonella typhimurium)	Activated sludge	Literary studies	karta charakterystyki
NOEC	OECD 208	220 mg/l				Literary studies, Reproduction	karta charakterystyki
NOEC	OECD 208	10 mg/kg		Higher plants		Literary studies, Indicator of growth	karta charakterystyki

etidronic acid

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC_{50}		350 mg/l	96 hour			Based on evidence	karta charakterystyki

Quaternary coco alkyl methyl amine ethoxylate methyl chloride

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC_{50}		>10-100 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		Based on evidence	karta charakterystyki
EC_{50}		>1-10 mg/l	48 hour	Daphnia (Daphnia magna)		Based on evidence	karta charakterystyki
EC_{50}		>1-10 mg/l	72 hour	Algae (Selenastrum capricornutum)		Based on evidence	karta charakterystyki

sodium hydroxide

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC_{50}		40.4 mg/l	48 hour	Aquatic invertebrates (Ceriodaphnia dubia)			SDS
EC_{50}		22 mg/l	15 min	Microorganisms (Photobacterium phosphoreum)			SDS

Chronic toxicity

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC_{50}		3000 mg/l	16 hour	Bacteria (Salmonella typhimurium)		Based on evidence	karta charakterystyki
NOEC	OECD 211	0.3 mg/l	21 day	Daphnia (Daphnia magna)		Based on evidence	karta charakterystyki
NOEC	OECD 210	0.135 mg/l	100 day	Fishes (Oncorhynchus mykiss)		Based on evidence	karta charakterystyki
NOECr		0.6 mg/l	72 hour	Algae and other aquatic plants		Based on evidence	karta charakterystyki

Alcohols, C12-13, ethoxylated

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC10		>0.1-1 mg/l		Fishes (Pimephales promelas)		Literary studies	karta charakterystki
EC10	OECD 211	>0.1-1 mg/l		Daphnia (Daphnia magna)		Literary studies	karta charakterystyki

etidronic acid

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC_{50}		229 mg/l	48 hour	Daphnia (Daphnia magna)		Based on evidence	karta charakterystyki

12.2. Persistence and degradability

Biodegradability

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

Parameter	Method	Value	Exposure time	Environment	Value determination	Result	Source
		95 %	28 day		Based on evidence	Easily biodegradable	karta charakterystyki
		80-90 %	60 day		Based on evidence	Easily biodegradable	karta charakterystyki
	OECD 306	75 %	28 day		Based on evidence	Easily biodegradable	karta charakterystyki

Alcohols, C12-13, ethoxylated

Parameter	Method	Value	Exposure time	Environment	Value determination	Result	Source
	OECD 301B	>60 %	28 day		Literary studies	Easily biodegradable	karta charakterystyki
	OECD 311	>60 %	69 day			Biodegradable	karta charakterystyki

Quaternary coco alkyl methyl amine ethoxylate methyl chloride

Parameter	Method	Value	Exposure time	Environment	Value determination	Result	Source
	OECD 301D				Based on evidence	Easily biodegradable	karta charakterystyki

Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended. The mixture is biodegradable.

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

Alcohols, C12-13, ethoxylated

Parameter	Value	Environment	Temperature	Value determination	Source
Koc	>5000			Literary studies	karta charakterystyki

Data not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

07 06 04 other organic solvents, washing liquids and mother liquors *

Packaging waste type code

15 01 02 plastic packaging

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 1719

14.2. UN proper shipping name

CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide)

14.3. Transport hazard class(es)

8 Corrosive substances

14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

No

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.	
UN number	1719
Safety signs	8

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended.

15.2. Chemical safety assessment

For mixture:
A Chemical Safety Assessment has not been carried out.
For the following substances, mixtures:
Quaternary coco alkyl methyl amine ethoxylate methyl chloride: the manufacturer has not performed the chemical safety assessment
Editronic acid: the manufacturer has not performed a chemical safety assessment
Alcohols, C12-13, ethoxylated: no data available
Sodium hydroxide: the manufacturer has performed a chemical safety assessment
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts: the product contains substances for which a chemical safety assessment is still required

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CE_{50}	Concentration of a substance when it is affected 50% of the population
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
LZO	Volatile organic compounds
MARPOL	International Convention for the Prevention of Pollution from Ships
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UE	European Union
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
vPvB	Very Persistent and very Bioaccumulative
WE	Identification code for each substance listed in EINECS
Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

General update

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.