



SAFETY DATA SHEET

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

GRAN CLOR 2006

Creation date 11th April 2014
Revision date 16th February 2022 Version 2.0

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

- 1.1. Product identifier** GRAN CLOR 2006
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Heavy foaming, washing and disinfecting product, based on active chlorine, designed for cleaning surfaces and accessories that also have contact with food and animal fodder. It has bactericidal, fungicidal, sporicidal and virucidal effects. Product is not intended to be used inside medical areas. Permission to trade bactericidal product: 3126/07
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. 1A, H314
Eye Dam. 1, H318
STOT SE 3, H335
Aquatic Acute 1, H400
Aquatic Chronic 3, H412

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

Most serious adverse effects on human health and the environment

May cause respiratory irritation. Causes serious eye damage. Causes severe skin burns and eye damage. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

- 2.2. Label elements**
Hazard pictogram



Signal word
Danger

Hazardous substances

sodium hypochlorite
sodium hydroxide
Amines, C12-16-alkyldimethyl, N-oxides



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Hazard statements

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

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

EUH031 Contact with acids liberates toxic gas.

<5 % phosphonates, <5 % cationic 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

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
Index: 017-011-00-1 CAS: 7681-52-9 EC: 231-668-3 Registration number: 01-2119488154-34-XXXX	sodium hypochlorite	23-24	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) EUH031 Specific concentration limit: EUH031: C ≥ 5 %	
Index: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 Registration number: 01-2119457892-27-XXXX	sodium hydroxide	10	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 %	
CAS: 85408-49-7 EC: 287-011-6 Registration number: 01-2119490061-47-XXXX	Amines, C12-16-alkyldimethyl, N-oxides	<5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	
CAS: 37971-36-1 EC: 253-733-5 Registration number: 01-2119436643-39-XXXX	2-phosphonobutane-1,2,4-tricarboxylic acid	<5	Met. Corr. 1, H290 Eye Irrit. 2, H319	



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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. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

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 induced 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. May cause respiratory irritation.

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

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.



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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 aerosols. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

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 only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

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.

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

Amines, C12-16-alkyldimethyl, N-oxides

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Consumers	Dermal	5.5 mg/kg	Local chronic effects		karta charakterystyki
Consumers	Inhalation	3.825 mg/m ³	Local chronic effects		karta charakterystyki
Consumers	Oral	0.44 ml/kg bw	Local chronic effects		karta charakterystyki
Workers	Dermal	11 ml/kg bw	Local chronic effects		karta charakterystyki
Workers	Inhalation	15.5 mg/m ³	Local chronic effects		karta charakterystyki

sodium hydroxide

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	1.0 mg/m ³	Local chronic effects		SDS
Consumers	Inhalation	1.0 mg/m ³	Local chronic effects		SDS



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sodium hypochlorite

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	1.55 mg/m ³	Systemic chronic effects		
Workers	Inhalation	3.1 mg/m ³	Systemic acute effects		
Workers	Inhalation	1.55 mg/m ³	Local chronic effects		
Workers	Inhalation	3.1 mg/m ³	Local acute effects		
Workers	Dermal	0.5 %	Local chronic effects		
Consumers	Inhalation	1.55 mg/m ³	Systemic chronic effects		
Consumers	Inhalation	3.1 mg/m ³	Systemic acute effects		
Consumers	Inhalation	1.55 mg/m ³	Local chronic effects		
Consumers	Inhalation	3.1 mg/m ³	Local acute effects		
Consumers	Dermal	0.5 %	Local chronic effects		
Consumers	Oral	0.26 mg/kg bw/day	Systemic chronic effects		

PNEC

Amines, C12-16-alkyldimethyl, N-oxides

Route of exposure	Value	Determining method
Drinking water	0.0335 mg/l	
Seawater	0.0335 mg/l	
Freshwater sediment	5.24 mg/kg	
Sea sediments	0.524 mg/kg	
Soil (agricultural)	1.02 mg/kg	

sodium hypochlorite

Route of exposure	Value	Determining method
Drinking water	0.21 µg/l	
Seawater	0.042 µg/l	

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. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. 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 or face shield (based on the nature of the work performed).

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. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Data not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	yellow
Odour	characteristic - chlorine
Melting point/freezing point	data not available



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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
Density data not available
Relative density 1,140 g/cm³ (+-) 0,020
Form yellow liquid

9.2. Other information
not available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with strong oxidizers and strong acids.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Contact with acids releases toxic gas.

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

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

2-phosphonobutane-1,2,4-tricarboxylic acid

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD ₅₀	EU B.1	>6500 mg/kg		Rat (Rattus norvegicus)	F/M	
Inhalation	LD ₅₀	OECD 403	>1979 mg/m ³	4 hour	Rat		
Dermal	LD ₅₀	EU B.3	>4000 mg/kg		Rat (Rattus norvegicus)	F/M	

Amines, C12-16-alkyldimethyl, N-oxides

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Skin	LD ₅₀		>2000 mg/kg		Rat (Rattus norvegicus)	F/M	karta charakterystyki



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Amines, C12-16-alkyldimethyl, N-oxides

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
Oral	LD ₅₀		1064 mg/kg		Rat (Rattus norvegicus)	F/M	karta charakterystyki
Oral	ATE		3488.9 mg/kg				karta charakterystyki

sodium hydroxide

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	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

sodium hypochlorite

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Source
	LD ₅₀		1100 mg/kg		Rat	M	
Dermal			20000 mg/kg		Rabbit	F/M	
	LC ₅₀		>10.5 mg/l	1 hour	Rat	M	

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Amines, C12-16-alkyldimethyl, N-oxides

Route of exposure	Result	Method	Time of exposure	Species	Source
Skin	Irritating	OECD 404		Rabbit	karta charakterystyki

sodium hypochlorite

Route of exposure	Result	Method	Time of exposure	Species	Source
	Corrosive				

Serious eye damage/irritation

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

2-phosphonobutane-1,2,4-tricarboxylic acid

Route of exposure	Result	Method	Time of exposure	Species	Source
	Irritating				

Amines, C12-16-alkyldimethyl, N-oxides

Route of exposure	Result	Method	Time of exposure	Species	Source
Eye	Corrosive	OECD 405		Rabbit	karta charakterystyki



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sodium hypochlorite

Route of exposure	Result	Method	Time of exposure	Species	Source
	Serious eye damage				

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

2-phosphonobutane-1,2,4-tricarboxylic acid

Route of exposure	Result	Method	Time of exposure	Species	Sex	Source
	Not irritating					

Amines, C12-16-alkyldimethyl, N-oxides

Route of exposure	Result	Method	Time of exposure	Species	Sex	Source
Skin	Not sensitizing			Human		karta charakterystyki
Skin	Not sensitizing	OECD 406		Guinea-pig (Cavia aperea f. porcellus)		karta charakterystyki

Mutagenicity

Amines, C12-16-alkyldimethyl, N-oxides

Result	Method	Time of exposure	Specific target organ	Species	Sex	Source
Negative	OECD 471			Rat		karta charakterystyki
Negative	EU B.17					karta charakterystyki

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Amines, C12-16-alkyldimethyl, N-oxides

Route of exposure	Parameter	Method	Value	Time of exposure	Result	Species	Sex	Source
Oral		OECD 471		2 year	Negative	Rat (Rattus norvegicus)		karta charakterystyki

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.



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Aspiration hazard

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. Based on available data the classification criteria are not met.

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Very toxic to aquatic life.

2-phosphonobutane-1,2,4-tricarboxylic acid

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC ₅₀	OECD 203	>1042 mg/l	96 hour	Fishes		
EC ₅₀	OECD 202	>1071 mg/l	48 hour	Daphnia (Daphnia magna)		
EC ₅₀	OECD 201	>1081 mg/l	72 hour	Algae (Desmodesmus subspicatus)		
EC ₅₀	OECD 209	>1000 mg/l	3 hour	Microorganisms	Activated sludge	

Amines, C12-16-alkyldimethyl, N-oxides

Parameter	Method	Value	Time of exposure	Species	Environment	Source
EC ₅₀		0.1428 mg/l	72 hour	Algae and other aquatic plants		karta charakterystyki
EC ₅₀		>24 mg/l	18 hour	Bacteria (Salmonella typhimurium)		karta charakterystyki
EC ₅₀	OECD 202	3.1 mg/kg	48 hour	Daphnia (Daphnia magna)		karta charakterystyki
LC ₅₀	OECD 203	2.67-3.46 mg/kg	96 hour	Fishes (Oncorhynchus mykiss)		karta charakterystyki

sodium hydroxide

Parameter	Method	Value	Time of exposure	Species	Environment	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

sodium hypochlorite

Parameter	Method	Value	Time of exposure	Species	Environment	Source
EC ₅₀		46.9 mg/l	3 hour	Microorganisms (Photobacterium phosphoreum)	Freshwater	



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sodium hypochlorite

Parameter	Method	Value	Time of exposure	Species	Environment	Source
EC ₅₀		0.0365 mg/l	72 hour	Pseudokirchneriella subcapitata	Freshwater	
EC ₅₀		0.026 mg/l	48 hour	Crustaceans (Ceriodaphnia dubia)	Salt water	
EC ₅₀		0.035 mg/l	48 hour	Crustaceans	Freshwater	
LC ₅₀		0.032 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	Salt water	
EC ₅₀		77.1 mg/l	3 hour	Microorganisms (Photobacterium phosphoreum)	Freshwater	
LC ₅₀		0.05 mg/l	120 hour	Fishes	Freshwater	
LC ₅₀		0.05 mg/l	120 hour	Fishes	Freshwater	
NOEC		0.02 mg/l	96 hour	Higher plants	Freshwater	
NOEC		0.007 mg/l	15 day	Crustaceans	Salt water	

Chronic toxicity

2-phosphonobutane-1,2,4-tricarboxylic acid

Parameter	Method	Value	Time of exposure	Species	Environment	Source
	OECD 204	≥1042 mg/l	14 day	Fishes (Oncorhynchus mykiss)		
EC ₅₀	OECD 211	>1071 mg/kg	21 day	Daphnia (Daphnia magna)		

Amines, C12-16-alkyldimethyl, N-oxides

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOEC		>67 mg/kg	28 day	Algae and other aquatic plants		karta karakterystyki
NOEC	OECD 211	0.7 mg/l	21 day	Daphnia (Daphnia magna)		karta karakterystyki
NOEC		0.42 mg/kg	302 day	Fishes (Oncorhynchus mykiss)		karta karakterystyki

sodium hypochlorite

Parameter	Method	Value	Time of exposure	Species	Environment	Source
NOEC		0.0021 mg/l			Freshwater	
NOEC		0.04 mg/l	28 day	Fishes (Oncorhynchus mykiss)	Salt water	

12.2. Persistence and degradability



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Biodegradability

2-phosphonobutane-1,2,4-tricarboxylic acid

Parameter	Method	Value	Time of exposure	Environment	Result	Source
	OECD 301E				Not biodegradable	

Amines, C12-16-alkyldimethyl, N-oxides

Parameter	Method	Value	Time of exposure	Environment	Result	Source
					Easily biodegradable	karta charakterystyki
	OECD 301B	90 %	28 day		Easily biodegradable	karta charakterystyki
	OECD 303A	69.9-75 %	21 day		Easily biodegradable	karta charakterystyki
	OECD 314	43-63 mg/kg	14 day		Easily biodegradable	karta charakterystyki

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

12.3. Bioaccumulative potential

2-phosphonobutane-1,2,4-tricarboxylic acid

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
Log Pow	-1.36				25°C	

Amines, C12-16-alkyldimethyl, N-oxides

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
LogPow	<2.7 mg/kg					karta charakterystyki

sodium hypochlorite

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Source
Log Pow	-3.42					

Data not available.

12.4. Mobility in soil

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

not available

12.7. Other adverse effects

Data not available.



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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 10 packaging containing residues of or contaminated by hazardous substances *

(*) - 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 hypochlorite, sodium hydroxide)

14.3. Transport hazard class(es)

8 Corrosive substances

14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

Yes

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

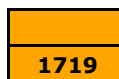
not relevant

Additional information

Hazard identification No.

UN number

Safety signs



8+hazardous for the environment



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 amended.



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15.2. Chemical safety assessment

Chemical safety assessment has not been carried out for the mixture.
Sodium hydroxide: the manufacturer has performed a chemical safety assessment
Sodium hypochlorite: the manufacturer has performed a chemical safety assessment
C12-14 alkyldimethyl amine oxides: the manufacturer has performed a chemical safety assessment
2-phosphonobutane-1,2,4-tricarboxylic acid: no data available

SECTION 16: Other information

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

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
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.

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

EUH031	Contact with acids liberates toxic gas.
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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



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log Kow	Octanol-water partition coefficient
LZO	Volatile organic compounds
MARPOL	International Convention for the Prevention of Pollution from Ships
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

Aquatic Acute	Hazardous to the aquatic environment
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
STOT SE	Specific target organ toxicity - single exposure

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.