

BS Plusfoam

Creation date	27th July 2009	Version	10
Revision date	04th March 2026		

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

- 1.1. Product identifier**
 Substance / mixture: BS Plusfoam mixture
 UFI: 0A80-S0SE-Q00U-NPV3
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
 For professional use only. Alkaline foaming cleaner for carbonised soils.
Main intended use
 PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)
Mixture uses advised against
 The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
 Name or trade name: UAB "BS Chemical"
 Address: Briedžio g. 13, Kretinga, Lithuania
 Phone: +37066373748
 Email: info@bs-chemical.lt
 Web address: www.bs-chemical.com
- Competent person responsible for the safety data sheet**
 Name: Beata Tumaš
 Email: beata@bs-chemical.lt
- 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

Most serious adverse effects on human health and the environment

Causes severe skin burns and eye damage.

- 2.2. Label elements**

Hazard pictogram



Signal word

Danger

Hazardous substances

potassium hydroxide
 sodium hydroxide
 tetrasodium ethylene diamine tetraacetate
 D-Glucopyranose, oligomers, decyl octyl glycosides
 β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container to in accordance with national regulations.

Supplemental information

<5 % amphoteric surfactants, <5 % non-ionic surfactants, <5 % EDTA and salts thereof

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. Does not contain any PMT or vPvM components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture.

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: 019-002-00-8 CAS: 1310-58-3 EC: 215-181-3	potassium hydroxide	5-15	Acute Tox. 4, H302 Skin Corr. 1A, H314 Specific concentration limit: Skin Irrit. 2, H315: 0.5 % ≤ C < 2 % Skin Corr. 1A, H314: C ≥ 5 % Skin Corr. 1B, H314: 2 % ≤ C < 5 % Eye Irrit. 2, H319: 0.5 % ≤ C < 2 %	
Index: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5	sodium hydroxide	5-15	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 %	
Index: 607-428-00-2 CAS: 64-02-8 EC: 200-573-9	tetrasodium ethylene diamine tetraacetate	<5	Acute Tox. 4, H302 Eye Dam. 1, H318	
CAS: 68515-73-1 EC: 500-220-1	D-Glucopyranose, oligomers, decyl octyl glycosides	<5	Eye Dam. 1, H318	
CAS: 90170-43-7 EC: 290-476-8	β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts	<5	Eye Irrit. 2, H319	

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



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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

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

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. Rinse out the mouth with water and provide 0.2-0.5 L of water. Call medical rescue service.

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

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. 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. Do not allow to enter drains.



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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 mist/vapours/spray. 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 tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

Storage temperature -10...+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

D-Glucopyranose, oligomers, decyl octyl glycosides				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	420 mg/m ³	Chronic effects systemic	ECHA
Workers	Dermal	595000 mg/kg bw/day	Chronic effects systemic	ECHA
Consumers	Inhalation	124 mg/m ³	Chronic effects systemic	ECHA
Workers	Dermal	357000 mg/kg bw/day	Chronic effects systemic	ECHA
Workers	Oral	35.7 mg/kg bw/day	Chronic effects systemic	ECHA

potassium hydroxide				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	1 mg/m ³	Chronic effects local	ECHA
Consumers	Inhalation	1 mg/m ³	Chronic effects local	ECHA
Workers	Inhalation	1 mg/m ³	Chronic effects local	ECHA
Consumers	Inhalation	1 mg/m ³	Chronic effects local	ECHA

sodium hydroxide				
Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	1 mg/m ³	Chronic effects local	ECHA
Consumers	Inhalation	1 mg/m ³	Chronic effects local	ECHA

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Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	3 mg/m ³	Acute effects systemic	ECHA
Workers	Inhalation	1.5 mg/m ³	Chronic effects systemic	ECHA
Workers	Inhalation	1.5 mg/m ³	Chronic effects local	ECHA
Workers	Inhalation	3 mg/m ³	Acute effects local	ECHA
Consumers	Inhalation	600 µg/m ³	Chronic effects local	ECHA
Consumers	Inhalation	1.2 mg/m ³	Acute effects local	ECHA
Consumers	Oral	25 mg/kg bw/day	Chronic effects systemic	ECHA

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts

Workers / consumers	Route of exposure	Value	Effect	Source
Workers	Inhalation	980 mg/m ³	Chronic effects systemic	ECHA
Workers	Dermal	2.67 mg/kg bw/day	Chronic effects systemic	ECHA

PNEC

D-Glucopyranose, oligomers, decyl octyl glycosides

Route of exposure	Value	Source
Freshwater environment	176 µg/l	ECHA
Water (intermittent release)	270 µg/l	ECHA
Marine water	17.6 µg/l	ECHA
Sea sediments	152 µg/kg of dry substance	ECHA
Freshwater sediment	1.516 mg/kg of dry substance of sediment	ECHA

tetrasodium ethylene diamine tetraacetate

Route of exposure	Value	Source
Freshwater environment	2.83 mg/l	ECHA
Water (intermittent release)	1 mg/l	ECHA
Marine water	283 µg/l	ECHA
Seawater (intermittent release)	1 mg/l	ECHA
Microorganisms in sewage treatment	50 mg/l	ECHA

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts

Route of exposure	Value	Source
Freshwater environment	100 µg/l	ECHA
Water (intermittent release)	100 µg/l	ECHA
Marine water	10 µg/l	ECHA
Microorganisms in sewage treatment	300 µg/l	ECHA

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. 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

EN ISO 16321-1 - Eye and face protection for occupational use.

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Skin protection

EN ISO 374-1. Hand protection: Protective gloves resistant to the product. When selecting gloves, consider the properties of the product and the duration of exposure. Replace gloves at the first signs of wear or damage. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

EN 14387. Mask with a filter in a poorly ventilated environment.

Thermal hazard

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
color intensity	transparent
Odour	characteristic
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	13-14 (100% solution at 20-25 °C)
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1.25-1.29 g/cm ³ at 20-25 °C
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The product is stable under normal conditions. When exposed to air, it reacts with carbon dioxide in the air, forming sodium carbonate.

10.3. Possibility of hazardous reactions

Reacts with light metals and acids, releasing hydrogen, which poses an explosion hazard. Reacts with ammonium compounds – releasing ammonia. Corrodes certain plastics and rubbers.

10.4. Conditions to avoid

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.

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SECTION 11: Toxicological information

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

Hazardous substances in concentrations exceeding exposure limits may cause acute inhalation poisoning, depending on the concentration and duration of exposure.

Acute toxicity

Based on the available data, the criteria for classification of the mixture are not met.

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Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	ATE	3642 mg/kg				Calculation of value	

D-Glucopyranose, oligomers, decyl octyl glycosides							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	2000 mg/kg bw		Rat			ECHA
Skin	LD ₅₀	2000 mg/kg bw		Rabbit			ECHA

potassium hydroxide							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	333-388 mg/kg bw		Rat			ECHA

sodium hydroxide							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	325 mg/kg		Rabbit			SDL

tetrasodium ethylene diamine tetraacetate							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD ₅₀	1780 mg/kg bw		Rat			ECHA

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts							
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination	Source
		2000 mg/kg bw		Rat			ECHA

Skin corrosion/irritation

Causes severe skin burns and eye damage.

D-Glucopyranose, oligomers, decyl octyl glycosides				
Route of exposure	Result	Exposure time	Species	Source
Dermal	No effect			ECHA

potassium hydroxide				
Route of exposure	Result	Exposure time	Species	Source
Dermal	Skin burns			ECHA

sodium hydroxide				
Route of exposure	Result	Exposure time	Species	Source
Dermal	Skin burns			ECHA

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tetrasodium ethylene diamine tetraacetate

Route of exposure	Result	Exposure time	Species	Source
Dermal	No effect			ECHA

β -Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts

Route of exposure	Result	Exposure time	Species	Source
Dermal	No effect			ECHA

Serious eye damage/irritation

Causes serious eye damage.

D-Glucopyranose, oligomers, decyl octyl glycosides

Route of exposure	Result	Exposure time	Species	Source
Eye	Irreversible damage			ECHA

potassium hydroxide

Route of exposure	Result	Exposure time	Species	Source
Eye	Irreversible damage			ECHA

sodium hydroxide

Route of exposure	Result	Exposure time	Species	Source
Eye	Irreversible damage			ECHA

tetrasodium ethylene diamine tetraacetate

Route of exposure	Result	Exposure time	Species	Source
Eye	Irreversible damage			ECHA

β -Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts

Route of exposure	Result	Exposure time	Species	Source
Eye	Highly irritating			ECHA

Respiratory or skin sensitisation

Based on the available data, the criteria for classification of the mixture are not met.

D-Glucopyranose, oligomers, decyl octyl glycosides

Route of exposure	Result	Exposure time	Species	Sex	Source
Dermal	Not sensitizing				ECHA
Inhalation	Indeterminate				

potassium hydroxide

Route of exposure	Result	Exposure time	Species	Sex	Source
Dermal	Not sensitizing				ECHA
Inhalation	Indeterminate				

sodium hydroxide

Route of exposure	Result	Exposure time	Species	Sex	Source
Dermal	Not sensitizing				ECHA
Inhalation	Indeterminate				

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Route of exposure	Result	Exposure time	Species	Sex	Source
Inhalation	Not sensitizing				ECHA
Dermal	Not sensitizing				ECHA

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts

Route of exposure	Result	Exposure time	Species	Sex	Source
Dermal	Not sensitizing				ECHA
Inhalation	Not sensitizing				SDL

Germ cell mutagenicity

Based on the available data, the criteria for classification of the mixture are not met.

D-Glucopyranose, oligomers, decyl octyl glycosides

Result	Exposure time	Specific target organ	Species	Sex	Source
No effect					SDL

potassium hydroxide

Result	Exposure time	Specific target organ	Species	Sex	Source
No effect					SDL

sodium hydroxide

Result	Exposure time	Specific target organ	Species	Sex	Source
No effect					SDL

tetrasodium ethylene diamine tetraacetate

Result	Exposure time	Specific target organ	Species	Sex	Source
No effect					ECHA

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts

Result	Exposure time	Specific target organ	Species	Sex	Source
No effect					ECHA

Carcinogenicity

Based on the available data, the criteria for classification of the mixture are not met.

D-Glucopyranose, oligomers, decyl octyl glycosides

Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Indeterminate			

potassium hydroxide

Route of exposure	Parameter	Value	Result	Species	Sex	Source
			No effect			SDL

sodium hydroxide

Route of exposure	Parameter	Value	Result	Species	Sex	Source
			No effect			SDL

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tetrasodium ethylene diamine tetraacetate

Route of exposure	Parameter	Value	Result	Species	Sex	Source
Dermal	NOAEL	500 mg/kg bw/day	No effect	Rat		ECHA

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts

Route of exposure	Parameter	Value	Result	Species	Sex	Source
			Indeterminate			

Reproductive toxicity

Based on the available data, the criteria for classification of the mixture are not met.

D-Glucopyranose, oligomers, decyl octyl glycosides

Effect	Parameter	Value	Result	Species	Sex	Source
Effects on fertility		1000 mg/kg bw/day	No effect			SDL
Maternal toxicity		1000 mg/kg bw/day	No effect			SDL
Developmental toxicity		1000 mg/kg bw/day	No effect			SDL

potassium hydroxide

Effect	Parameter	Value	Result	Species	Sex	Source
			No effect			SDL

sodium hydroxide

Effect	Parameter	Value	Result	Species	Sex	Source
			No effect			SDL

tetrasodium ethylene diamine tetraacetate

Effect	Parameter	Value	Result	Species	Sex	Source
Effects on fertility	NOAEL	250 mg/kg bw/day	Negative	Rat		ECHA

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts

Effect	Parameter	Value	Result	Species	Sex	Source
			Indeterminate			

Toxicity for specific target organ - single exposure

Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - repeated exposure

Based on the available data, the criteria for classification of the mixture are not met.

D-Glucopyranose, oligomers, decyl octyl glycosides

Route of exposure	Parameter	Value	Result	Species	Sex	Source
Oral	NOAEL	100 mg/kg bw/day		Rat		ECHA

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potassium hydroxide						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
			No effect			SDL

sodium hydroxide						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
			No effect			SDL

tetrasodium ethylene diamine tetraacetate						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
Oral	NOAEL	6 mg/kg bw/day		Rat		ECHA
Oral	NOAEL	938 mg/kg bw/day		Mouse		ECHA
Oral	LOAEL	60 mg/kg bw/day		Rat		ECHA
Inhalation	NOAEC	3 mg/m ³ of air		Rat		ECHA
Inhalation	LOAEC	15 mg/m ³ of air		Rat		ECHA

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts						
Route of exposure	Parameter	Value	Result	Species	Sex	Source
Oral	NOAEL	43 mg/kg bw/day		Rat		ECHA
Oral	LOAEL	160 mg/kg bw/day		Rat		ECHA

Aspiration hazard

Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on other hazards

Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information

not available

SECTION 12: Ecological information

12.1. Toxicity

Based on the available data, the criteria for classification of the mixture are not met.

Acute toxicity

D-Glucopyranose, oligomers, decyl octyl glycosides					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	100.81-170 mg/l	96 hours	Fish		ECHA
EC ₅₀	100 mg/kg	48 hours	Aquatic invertebrates		ECHA

sodium hydroxide					
Parameter	Value	Exposure time	Species	Environment	Source
EC ₅₀	40.4 mg/l	48 hours	Aquatic invertebrates		ECHA

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tetrasodium ethylene diamine tetraacetate					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	100 mg/l	4 days	Fish		ECHA
NOEC	100 mg/l	4 days	Fish		ECHA
EC ₅₀	100 mg/l	48 hours	Aquatic invertebrates		ECHA
EC ₅₀	60 mg/l	72 hours	Algae		ECHA
NOEC	48.4 mg/l	72 hours	Algae		ECHA
LOEC	100 mg/l	72 hours	Algae		ECHA
EC ₀	100 mg/l	48 hours	Aquatic invertebrates		ECHA
EC ₅₀	0.0024 µmol/l	24 hours	Microorganisms		ECHA
NOEC	640 mg/l	3 hours	Microorganisms		ECHA
NOEC	84 mg/kg of dry substance of soil	21 days	Higher plants		ECHA
NOEC	58.4 mg/kg of dry substance of soil	14 days	Higher plants		ECHA

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	4.2 mg/l	4 days	Fish		ECHA
NOEC	3.2 mg/l	4 days	Fish		ECHA
EC ₅₀	29 mg/l	48 hours	Aquatic invertebrates		ECHA
EC ₅₀	55 mg/l	24 hours	Aquatic invertebrates		ECHA
NOEC	3 mg/l	48 hours	Aquatic invertebrates		ECHA
NOEC	7.5 mg/l	24 hours	Aquatic invertebrates		ECHA
EC ₅₀	9.4 mg/l	72 hours	Algae		ECHA
NOEC	5.5 mg/l	72 hours	Algae		ECHA
EC ₅₀	300 mg/l	3 hours	Aquatic microorganisms		ECHA
NOEC	30 mg/l	3 hours	Aquatic microorganisms		ECHA

Chronic toxicity

D-Glucopyranose, oligomers, decyl octyl glycosides					
Parameter	Value	Exposure time	Species	Environment	Source
LC ₅₀	3.2 mg/l	28 days	Fish		ECHA
NOEC	1-4 mg/l	21 days	Aquatic invertebrates		ECHA

tetrasodium ethylene diamine tetraacetate					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	25.7 mg/l	35 days	Fish		ECHA
NOEC	25 mg/l	21 days	Aquatic invertebrates		ECHA
LOEC	50 mg/l	21 days	Aquatic invertebrates		ECHA

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts					
Parameter	Value	Exposure time	Species	Environment	Source
NOEC	10 mg/l	21 days	Aquatic invertebrates		ECHA

12.2. Persistence and degradability

The mixture is biodegradable.

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Biodegradability

D-Glucopyranose, oligomers, decyl octyl glycosides					
Parameter	Value	Exposure time	Environment	Result	Source
	100 %			Easily biodegradable	ECHA

potassium hydroxide					
Parameter	Value	Exposure time	Environment	Result	Source
	-				SDL

sodium hydroxide					
Parameter	Value	Exposure time	Environment	Result	Source
	-				

tetrasodium ethylene diamine tetraacetate					
Parameter	Value	Exposure time	Environment	Result	Source
DT ₅₀		2.35 hours	Atmosphere		ECHA
	100 %		Fresh water	Easily biodegradable	ECHA

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts					
Parameter	Value	Exposure time	Environment	Result	Source
	100 %			Easily biodegradable	ECHA

12.3. Bioaccumulative potential

Insignificant.

D-Glucopyranose, oligomers, decyl octyl glycosides		
Parameter	Value	Source
Log Pow	<1.77	SDL

potassium hydroxide		
Parameter	Value	Source
	0	SDL

sodium hydroxide		
Parameter	Value	Source
	-	

tetrasodium ethylene diamine tetraacetate		
Parameter	Value	Source
BCF	1.8 l/kg	ECHA

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts		
Parameter	Value	Source
	-	

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

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D-Glucopyranose, oligomers, decyl octyl glycosides

Parameter	Value	Temperature	Result	Source
	0-0 Pa.m ³ /mol	25°C		ECHA

potassium hydroxide

Parameter	Value	Temperature	Result	Source
			High, Hydrolytically unstable	SDL

sodium hydroxide

Parameter	Value	Temperature	Result	Source
	-			

tetrasodium ethylene diamine tetraacetate

Parameter	Value	Temperature	Result	Source
Koc	312.7	20°C		ECHA

β-Alanine, N-(2-carboxyethyl)-, N-coco alkyl derivs., disodium salts

Parameter	Value	Temperature	Result	Source
	-			

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

None.

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. 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 can be used in waste incineration plants for energy production or disposed of in a landfill of the appropriate classification.

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

20 01 29* detergents containing hazardous substances

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 3266

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- 14.2. UN proper shipping name**
CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
- 14.3. Transport hazard class(es)**
8 Corrosive substances
- 14.4. Packing group**
I
- 14.5. Environmental hazards**
not relevant
- 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	
Classification code	C5
Safety signs	8



Tunnel restriction code (E)

Air transport - ICAO/IATA

Packaging instructions passenger	850
Cargo packaging instructions	854

Marine transport - IMDG

EmS (emergency plan)	F-A, S-B
MFAG	760

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 as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

not available

SECTION 16: Other information

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

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.

Guidelines for safe handling used in the safety data sheet

P260	Do not breathe mist/vapours/spray.
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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.
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.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container to in accordance with national regulations.

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

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
ATE	Acute toxicity estimate
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DT ₅₀	disappearance time for 50%
EC	Identification code for each substance listed in EINECS
EC ₀	Concentration of a substance when it is affected 0 % of the population
EC ₅₀	Concentration of a substance when it is affected 50 % of the population
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EU	European Union
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
IMO	International Maritime Organization
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
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
Skin Corr.	Skin corrosion

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Skin Irrit.	Skin irritation
UN number	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
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

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.

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.

BS CHEMICAL