

SAFETY DATA SHEET

Waterbased Alkaline Foam

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

1.1. Product identifier

Trade name

Waterbased Alkaline Foam

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

Relevant identified uses of the substance or mixture

No special

Uses advised against

No special

1.3. Details of the supplier of the safety data sheet

Company and address

Vecom Marine B.V.

Mozartlaan 3

3144 NA Maassluis

The Netherlands

+31 (0) 10-5930210

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<https://vecom-marine.com>

Contact person

Vecom Marine B.V.

E-mail

sales@vecom-marine.com

Revision

11/04/2022

SDS Version

2.0

Date of previous version

19/05/2021 (1.0)

▼ 1.4. Emergency telephone number

National Poisons Information Centre (NVIC): +31 (0)88-755-8000 (24 hour service)

Only intended to inform professional emergency services in case of acute poisoning.

See section 4 on first aid measures.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Corr. 1B; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

Carc. 2; H351, Suspected of causing cancer.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

▼ Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Suspected of causing cancer. (H351)

Safety statement(s)

General

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▼ Prevention

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Obtain special instructions before use. (P201)

▼ Response

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

Storage

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▼ Disposal

Dispose of contents/container to an approved waste disposal plant. (P501)

Hazardous substances

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)

Acetic acid, nitrilotri-, trisodium salt, monohydrate

2.3. Other hazards

Additional labelling

Not applicable

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: Composition/information on ingredients

▼ 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)	CAS No.: 85536-14-7 EC No.: 287-494-3 REACH: 01-2119490234-40-XXXX Index No.:	3-5%	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3 REACH: 01-2119487136-33-XXXX Index No.: 019-002-00-8	3-5%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Corr. 1A, H314 Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve	CAS No.: 111-76-2 EC No.: 203-905-0 REACH: 01-2119475108-36-XXXX Index No.: 603-014-00-0	3-5%	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332	[1]

Sodium p-cumenesulphonate	CAS No.: 15763-76-5 EC No.: 239-854-6 REACH: 01-2119489411-37-XXXX Index No.:	1-3%	Eye Irrit. 2, H319	
potassium 4-cumenesulfonate	CAS No.: 164524-02-1 EC No.: 629-764-9 REACH: 01-2119489427-24-XXXX Index No.:	1-3%	Eye Irrit. 2, H319	
Silicic acid, sodium salt	CAS No.: 1344-09-8 EC No.: 215-687-4 REACH: Index No.:	1-3%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	
Acetic acid, nitrilotri-, trisodium salt, monohydrate	CAS No.: 18662-53-8 EC No.: 606-091-9 REACH: Index No.:	1-3%	Acute Tox. 4, H302 Eye Irrit. 2, H319 Carc. 2, H351	
isopentyl acetate;2-methylbutyl acetat;2(or 3)-methylbutyl acetate;pentyl acetate;1-methylbutyl acetate	CAS No.: 123-92-2 EC No.: 204-662-3 REACH: 01-2119548408-32-XXXX Index No.: 607-130-00-2	<0.0015%	EUH066 Flam. Liq. 3, H226	[1]
Diphenyl ether	CAS No.: 101-84-8 EC No.: 202-981-2 REACH: Index No.:	<0.0015%	Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	[1]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

▼ Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

▼ Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Sulphur oxides.

Carbon oxides (CO / CO₂).

Some metal oxides.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

▼ 6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and

place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

Dry, cool and well ventilated

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

▼ 8.1. Control parameters

—
2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve

Short term exposure limit (15 minutes) (mg/m³): 246

Long term exposure limit (8 hours) (mg/m³): 100

Annotations:

H = Special risk of dermal absorption.

—
isopentyl acetate;2-methylbutyl acetat;2(or 3)-methylbutyl acetate;pentyl acetate;1-methylbutyl acetate

Short term exposure limit (15 minutes) (mg/m³): 530

—
Diphenyl ether

Short term exposure limit (15 minutes) (mg/m³): 14

Long term exposure limit (8 hours) (mg/m³): 7

Annex XIII of the Working Conditions Regulation, List of legal limit values.

DNEL

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
DNEL	85 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
DNEL	6 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
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DNEL	42.5 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
DNEL	1.5 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
DNEL	0.425 mg/kg
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	potassium hydroxide;caustic potash
DNEL	1 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
DNEL	89 mg/kg/d
Route of exposure	Dermal
Duration	Short term – Systemic effects - Workers
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
DNEL	1091 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Systemic effects - Workers
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
DNEL	246 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
DNEL	125 mg/kg/d
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
DNEL	98 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
DNEL	89 mg/kg/d
Route of exposure	Dermal

Duration	Short term – Systemic effects - General population
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
DNEL	426 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Systemic effects - General population
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
DNEL	26.7 mg/kg/d
Route of exposure	Oral
Duration	Short term – Systemic effects - General population
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
DNEL	147 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Local effects - General population
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
DNEL	75 mg/kg/d
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
DNEL	59 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
DNEL	6.3 mg/kg/d
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	Sodium p-cumenesulphonate
DNEL	136.25 mg/kg dw/dag
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	Sodium p-cumenesulphonate
DNEL	26.9 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	Sodium p-cumenesulphonate
DNEL	0.096 mg/cm ²
Route of exposure	Dermal
Duration	Long term – Local effects - Workers

Product/substance	Sodium p-cumenesulphonate
DNEL	68.1 mg/kg dw/dag
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population

Product/substance	Sodium p-cumenesulphonate
DNEL	6.6 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population

Product/substance	Sodium p-cumenesulphonate
DNEL	3.8 mg/kg dw/dag
Route of exposure	Oral
Duration	Long term – Systemic effects - General population

Product/substance	Sodium p-cumenesulphonate
DNEL	0.048 mg/cm ²
Route of exposure	Dermal
Duration	Long term – Local effects - General population

Product/substance	potassium 4-cumenesulfonate
DNEL	136.25 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers

Product/substance	potassium 4-cumenesulfonate
DNEL	26.9 mg/cm ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers

Product/substance	potassium 4-cumenesulfonate
DNEL	0.096 mg/cm ²
Route of exposure	Dermal
Duration	Long term – Local effects - Workers

Product/substance	potassium 4-cumenesulfonate
DNEL	68.1 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population

Product/substance	potassium 4-cumenesulfonate
DNEL	6.6 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population

Product/substance	potassium 4-cumenesulfonate
DNEL	3.8 mg/kg
Route of exposure	Oral
Duration	Long term – Systemic effects - General population

Product/substance	potassium 4-cumenesulfonate
DNEL	0.048 mg/cm ²

Route of exposure	Dermal
Duration	Long term – Local effects - General population
Product/substance	Silicic acid, sodium salt
DNEL	5.61 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	Silicic acid, sodium salt
DNEL	1.59 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	Silicic acid, sodium salt
DNEL	0.8 mg/kg
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	Silicic acid, sodium salt
DNEL	1.38 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	Silicic acid, sodium salt
DNEL	0.8 mg/kg
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
DNEL	9.6 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Systemic effects - Workers
Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
DNEL	3.2 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
DNEL	2.4 mg/m ³
Route of exposure	Inhalation
Duration	Short term – Systemic effects - General population
Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
DNEL	0.9 mg/kg
Route of exposure	Oral
Duration	Short term – Systemic effects - General population
Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
DNEL	0.8 mg/m ³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population

Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
DNEL	0.3 mg/kg
Route of exposure	Oral
Duration	Long term – Systemic effects - General population

PNEC

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
PNEC	0.268 mg/l
Route of exposure	Freshwater
Duration of Exposure	

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
PNEC	0.027 mg/l
Route of exposure	Marine water
Duration of Exposure	

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
PNEC	0.017 mg/l
Route of exposure	Intermittent release
Duration of Exposure	

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
PNEC	3.43 mg/l
Route of exposure	Sewage treatment plant
Duration of Exposure	

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
PNEC	8.1 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
PNEC	6.8 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
PNEC	35 mg/kg
Route of exposure	Soil
Duration of Exposure	

Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
PNEC	8.8 mg/l
Route of exposure	Freshwater
Duration of Exposure	

Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
PNEC	0.88 mg/l
Route of exposure	Marine water

Duration of Exposure

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 PNEC 463 mg/l
 Route of exposure Sewage treatment plant
 Duration of Exposure

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 PNEC 34.6 mg/kg TG
 Route of exposure Freshwater sediment
 Duration of Exposure

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 PNEC 3.46 mg/kg TG
 Route of exposure Marine water sediment
 Duration of Exposure

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 PNEC 2.33 mg/kg TG
 Route of exposure Soil
 Duration of Exposure

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 PNEC 26.4 mg/l
 Route of exposure Intermittent release
 Duration of Exposure

Product/substance Sodium p-cumenesulphonate
 PNEC 0.23 mg/l
 Route of exposure Freshwater
 Duration of Exposure

Product/substance Sodium p-cumenesulphonate
 PNEC 0.023 mg/l
 Route of exposure Marine water
 Duration of Exposure

Product/substance Sodium p-cumenesulphonate
 PNEC 2.3 mg/l
 Route of exposure Intermittent release
 Duration of Exposure

Product/substance Sodium p-cumenesulphonate
 PNEC 100 mg/l
 Route of exposure Sewage treatment plant
 Duration of Exposure

Product/substance Sodium p-cumenesulphonate

PNEC	0.862 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	
Product/substance	Sodium p-cumenesulphonate
PNEC	0.0862 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	
Product/substance	Sodium p-cumenesulphonate
PNEC	0.037 mg/kg
Route of exposure	Soil
Duration of Exposure	
Product/substance	potassium 4-cumenesulfonate
PNEC	0.23 mg/l
Route of exposure	Freshwater
Duration of Exposure	
Product/substance	potassium 4-cumenesulfonate
PNEC	0.023 mg/l
Route of exposure	Marine water
Duration of Exposure	
Product/substance	potassium 4-cumenesulfonate
PNEC	2.3 mg/l
Route of exposure	Intermittent release
Duration of Exposure	
Product/substance	potassium 4-cumenesulfonate
PNEC	100 mg/l
Route of exposure	Sewage treatment plant
Duration of Exposure	
Product/substance	potassium 4-cumenesulfonate
PNEC	0.862 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	
Product/substance	potassium 4-cumenesulfonate
PNEC	0.0862 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	
Product/substance	potassium 4-cumenesulfonate
PNEC	0.037 mg/kg
Route of exposure	Soil
Duration of Exposure	
Product/substance	Silicic acid, sodium salt
PNEC	7.5 mg/L
Route of exposure	Freshwater

Duration of Exposure

Product/substance	Silicic acid, sodium salt
PNEC	1 mg/L
Route of exposure	Marine water
Duration of Exposure	

Product/substance	Silicic acid, sodium salt
PNEC	7.5 mg/L
Route of exposure	Intermittent release
Duration of Exposure	

Product/substance	Silicic acid, sodium salt
PNEC	348 mg/L
Route of exposure	Sewage treatment plant
Duration of Exposure	

Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
PNEC	0.93 mg/l
Route of exposure	Freshwater
Duration of Exposure	

Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
PNEC	0.093 mg/l
Route of exposure	Marine water
Duration of Exposure	

Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
PNEC	0.8 mg/l
Route of exposure	Intermittent release
Duration of Exposure	

Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
PNEC	270 mg/l
Route of exposure	Sewage treatment plant
Duration of Exposure	

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Do not recirculate outlet air that contain the substances.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally


Use only CE marked protective equipment.

▼ Respiratory Equipment

Type	Class	Colour	Standards
No special when used as intended.			


Skin protection

Recommended	Type/Category	Standards
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-




▼ Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388



Eye protection

Type	Standards
Wear safety glasses with side shields.	EN166



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Pale yellow

Odour / Odour threshold

Sweet

pH

13,5

▼ Density (g/cm³)

1.08 (20 °C)

▼ Relative density

1.08 (20 °C)

Kinematic viscosity

Testing not relevant or not possible due to nature of the product.

Particle characteristics

Does not apply to liquids.

Phase changes

▼ Melting point/Freezing point (°C)

-3

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

▼ Boiling point (°C)

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Vapour pressure

Testing not relevant or not possible due to nature of the product.

Relative vapour density

Testing not relevant or not possible due to nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to nature of the product.

Ignition (°C)

Testing not relevant or not possible due to nature of the product.

Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to nature of the product.

Solubility

Solubility in water

Soluble

n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

9.2. Other information

▼ Other physical and chemical parameters

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

No special

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

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

Acute toxicity

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>300 - 2000 mg/kg

Other information

Product/substance Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
 Test method
 Species Rat
 Route of exposure Dermal
 Test LD50
 Result >2000 mg/kg
 Other information

Product/substance potassium hydroxide;caustic potash
 Test method
 Species Rat
 Route of exposure Oral
 Test LD50
 Result 333 mg/kg
 Other information

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 Test method
 Species Rat
 Route of exposure Oral
 Test LD50
 Result >300 - 2000 mg/kg
 Other information

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 Test method
 Species Guinea pig
 Route of exposure Oral
 Test LD50
 Result 1400 mg/kg
 Other information

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 Test method
 Species Rat
 Route of exposure Dermal
 Test LD50
 Result >2000 mg/kg
 Other information

Product/substance Sodium p-cumenesulphonate
 Test method
 Species Rat
 Route of exposure Oral
 Test LD50
 Result >2000 mg/kg
 Other information

Product/substance	Sodium p-cumenesulphonate
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50 (4 hours)
Result	>5 mg/L
Other information	

Product/substance	Sodium p-cumenesulphonate
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kg
Other information	

Product/substance	potassium 4-cumenesulfonate
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>2000 mg/kg
Other information	

Product/substance	potassium 4-cumenesulfonate
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50 (4 hours)
Result	>5 mg/L
Other information	

Product/substance	potassium 4-cumenesulfonate
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kg
Other information	

Product/substance	Silicic acid, sodium salt
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	3400 mg/kg
Other information	

Product/substance	Silicic acid, sodium salt
Test method	
Species	Rat
Route of exposure	Dermal

Test	LD50
Result	>5000 mg/kg
Other information	

Product/substance	Silicic acid, sodium salt
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	>2.06 g/m ³
Other information	

Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50 (4 hours)
Result	2 - 5 mg/L
Other information	

Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>10000 mg/kg
Other information	

Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	1300 - 1600 mg/kg
Other information	

Skin corrosion/irritation

Causes severe skin burns and eye damage.

▼ Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

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

Skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Long term effects

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties

No special

Other information

2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	>1 - 10 mg/L
Other information	

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
Test method	
Species	Fish
Compartment	
Duration	28 days
Test	NOEC
Result	1 mg/L
Other information	

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	>1 - 10 mg/L
Other information	

Product/substance	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. (Marlon AS3)
Test method	
Species	Daphnia
Compartment	
Duration	32 days
Test	NOEC
Result	>1 - 10 mg/L
Other information	

Product/substance potassium hydroxide;caustic potash
 Test method
 Species Fish
 Compartment
 Duration 96 hours
 Test LC50
 Result 80 mg/L
 Other information

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 Test method
 Species Fish
 Compartment
 Duration 96 hours
 Test LC50
 Result 1464 mg/L
 Other information

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 Test method
 Species Fish
 Compartment
 Duration 21 days
 Test NOEC
 Result >100 mg/L
 Other information

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 Test method
 Species Daphnia
 Compartment
 Duration 48 hours
 Test EC50
 Result 1550 mg/L
 Other information

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 Test method
 Species Daphnia
 Compartment
 Duration 21 days
 Test NOEC
 Result 100 mg/L
 Other information

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 Test method
 Species Algae

Compartment	
Duration	72 hours
Test	EbC50
Result	911 mg/L
Other information	
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
Test method	
Species	Bacteria
Compartment	
Duration	16 hours
Test	EC 3
Result	>700 mg/L
Other information	
Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
Test method	
Species	Bacteria
Compartment	
Duration	48 hours
Test	EC 5
Result	463 mg/L
Other information	
Product/substance	Sodium p-cumenesulphonate
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	>100 mg/L
Other information	
Product/substance	Sodium p-cumenesulphonate
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	>100 mg/L
Other information	
Product/substance	Sodium p-cumenesulphonate
Test method	
Species	Algae
Compartment	
Duration	96 hours
Test	EC50
Result	>100 mg/L
Other information	

Product/substance Sodium p-cumenesulphonate
 Test method
 Species Bacteria
 Compartment
 Duration 3 hours
 Test EC10
 Result >1000 mg/L
 Other information

Product/substance potassium 4-cumenesulfonate
 Test method
 Species Fish
 Compartment
 Duration 96 hours
 Test LC50
 Result >100 mg/L
 Other information

Product/substance potassium 4-cumenesulfonate
 Test method
 Species Daphnia
 Compartment
 Duration 48 hours
 Test EC50
 Result >100 mg/L
 Other information

Product/substance potassium 4-cumenesulfonate
 Test method
 Species Algae
 Compartment
 Duration 96 hours
 Test EC50
 Result >100 mg/L
 Other information

Product/substance potassium 4-cumenesulfonate
 Test method
 Species Bacteria
 Compartment
 Duration 3 hours
 Test EC10
 Result >1000 mg/L
 Other information

Product/substance Silicic acid, sodium salt
 Test method
 Species Fish
 Compartment
 Duration 96 hours
 Test LC50
 Result 1108 mg/L

Other information

Product/substance Silicic acid, sodium salt
 Test method
 Species Daphnia
 Compartment
 Duration 48 hours
 Test EC50
 Result 1700 mg/L
 Other information

Product/substance Acetic acid, nitrilotri-, trisodium salt, monohydrate
 Test method
 Species Fish
 Compartment
 Duration 96 hours
 Test LC50
 Result 103 mg/L
 Other information

Product/substance Acetic acid, nitrilotri-, trisodium salt, monohydrate
 Test method
 Species Daphnia
 Compartment
 Duration 48 hours
 Test EC50
 Result 560 mg/L
 Other information

Product/substance Acetic acid, nitrilotri-, trisodium salt, monohydrate
 Test method
 Species Algae
 Compartment
 Duration 72 hours
 Test EC50
 Result >91.5 mg/L
 Other information

Product/substance Acetic acid, nitrilotri-, trisodium salt, monohydrate
 Test method
 Species Algae
 Compartment
 Duration 72 hours
 Test NOEC
 Result 1.43 mg/L
 Other information

12.2. Persistence and degradability

Product/substance 2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
 Biodegradable Yes
 Test method OECD 301 B

Result	90.4% in 28 d
Product/substance	Sodium p-cumenesulphonate
Biodegradable	Yes
Test method	OECD 301 B
Result	>60%; 28d
Product/substance	potassium 4-cumenesulfonate
Biodegradable	Yes
Test method	OECD 301 B
Result	>60%; 28d
Product/substance	Acetic acid, nitrilotri-, trisodium salt, monohydrate
Biodegradable	Yes
Test method	
Result	

12.3. Bioaccumulative potential

Product/substance	2-butoxyethanol;2-butoxyethanol; ethylene glycol monobutyl ether;ethylene glycol monobutyl ether;butyl cellosolve
Test method	
Potential bioaccumulation	No data available
LogPow	0.81
BCF	No data available
Other information	

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

No special

12.7. Other adverse effects

No special

SECTION 13: Disposal considerations

▼ 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 7 – Carcinogenic

HP 8 – Corrosive

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

Not applicable




Specific labelling

Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
ADR	UN1814	POTASSIUM HYDROXIDE SOLUTION	Class: 8 Labels: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1814	POTASSIUM HYDROXIDE SOLUTION	Class: 8 Labels: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S-B See below for additional information.
IATA	UN1814	POTASSIUM HYDROXIDE SOLUTION	Class: 8 Labels: 8 Classification code: C5 	II	No	See below for additional information.

* Packing group

** Environmental hazards

▼ Additional information

IMDG / See the Dangerous Goods List, section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

No specific requirements

SEVESO - Categories / dangerous substances

Not applicable

Additional information

Not applicable

▼ Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
Working Conditions Act 1998 and latest Working Conditions Decree of 01-01-2021.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

▼ Full text of H-phrases as mentioned in section 3

EUH066, Repeated exposure may cause skin dryness or cracking.
H226, Flammable liquid and vapour.
H290, May be corrosive to metals.
H302, Harmful if swallowed.
H312, Harmful in contact with skin.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H332, Harmful if inhaled.
H335, May cause respiratory irritation.
H351, Suspected of causing cancer.
H400, Very toxic to aquatic life.
H412, Harmful to aquatic life with long lasting effects.

▼ Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number

SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

▼ **Additional information**

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

▼ **The safety data sheet is validated by**

RK

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: NL-en