

Safety data sheet according to UK REACH

Printing date 24.10.2024

Version number 4 (replaces version 3)

Revision: 24.10.2024

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

· Product identifier

· Trade name: **TT Foam**

· Registration number Mixture

· Relevant identified uses of the substance or mixture and uses advised against

· Product category PC0 Other

· Application of the substance / the mixture Agricultural chemicals

· Uses advised against

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Any use involving aerosol formation or vapour release in excess of the assigned Workplace Exposure Limit where workers are exposed without suitable Respiratory Protective Equipment.

· Details of the supplier of the safety data sheet

· Supplier:

Agrovista UK Ltd

Rutherford House

Nottingham Science and Technology Park

University Boulevard

Nottingham

NG7 2PZ

UK

Tel: +44 (0)1952 897910

· Further information obtainable from: Product safety department.

· Emergency telephone number:

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

· Classification of the substance or mixture

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Label elements

· Hazard pictograms



GHS05 GHS07

· Signal word Danger

· Hazard-determining components of labelling:

Sodium lauryl sulphate

Tetrasodium ethylenediaminetetraacetate

Amines, C12-18(even numbered)-alkyldimethyl, N-oxides

· Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P280 Wear protective gloves / eye protection / face protection.

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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.
 P330 Rinse mouth.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 85586-07-8 EINECS: 287-809-4 Reg.nr.: 01-2119489463-28-XXXX	Sodium lauryl sulphate ☞ Eye Dam. 1, H318; ☞ Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: $C \geq 20 \%$ Eye Irrit. 2; H319: $10 \% \leq C < 20 \%$	25%
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 2119475104-44-XXXX	2-(2-Butoxyethoxy)ethanol ☞ Eye Irrit. 2, H319	10 – 25%
CAS: 64-02-8 EINECS: 200-573-9 Reg.nr.: 01-2119486762-27-XXXX	Tetrasodium ethylenediaminetetraacetate ☞ Eye Dam. 1, H318; ☞ Acute Tox. 4, H302; Acute Tox. 4, H332	3 – 10%
CAS: 68955-55-5 EC number: 931-341-1 Reg.nr.: 01-2119489396-21-XXXX	Amines, C12-18(even numbered)-alkyldimethyl, N-oxides ☞ Eye Dam. 1, H318; ☞ Aquatic Chronic 2, H411; ☞ Acute Tox. 4, H302; Skin Irrit. 2, H315	3 – < 10%
CAS: 61788-93-0 EINECS: 263-020-0	Amines, coco alkyldimethyl ☞ Skin Corr. 1B, H314; ☞ Aquatic Acute 1, H400; ☞ Acute Tox. 4, H302 ATE: LD50 oral: 500 mg/kg	0.25 – < 1%
CAS: 52-51-7 EINECS: 200-143-0 Reg.nr.: 01-2119980938-15-XXXX	2-bromo-2-nitropropane-1,3-diol ☞ Eye Dam. 1, H318; ☞ Aquatic Acute 1, H400 (M=10); ☞ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335	0.025 – < 0.1%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **Description of first aid measures**
- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.

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- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Check for and remove any contact lenses.
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
- **Information for doctor:** Treat symptomatically and supportively.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Bromine compounds
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Sulphur Oxides (SO_x)
Toxic metal oxide smoke
- **Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.
Wear self-contained respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.
- **For non-emergency personnel**
Isolate leaks provided that there is no additional risk for the people performing this task.
Wear protective equipment. Keep unprotected persons away.
- **For emergency responders** Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course in the undiluted form.
Do not allow to penetrate the ground/soil.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Do not use combustible materials such as paper towels to clean up spills.
- **Reference to other sections**
See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· Precautions for safe handling

Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Safety showers and eye wash facilities should be available at the work area.

· Information about fire - and explosion protection: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store in a bundled area.

Protect from frost.

Protect from heat and direct sunlight.

Minimum storage temperature: 2 °C

Maximum storage temperature: 40 °C

· Storage class: 10

· Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 112-34-5 2-(2-Butoxyethoxy)ethanol

WEL	Short-term value: 101.2 mg/m ³ , 15 ppm
	Long-term value: 67.5 mg/m ³ , 10 ppm

· DNELs

CAS: 85586-07-8 Sodium lauryl sulphate

Oral	Long-term systemic effects	24 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	2,440 mg/kg bw/day (general population)
		4,060 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	85 mg/m ³ (general population)
		285 mg/m ³ (worker)

CAS: 112-34-5 2-(2-Butoxyethoxy)ethanol

Oral	Long-term systemic effects	6.25 mg/kg bw/day (general population)
Inhalative	Long-term local effects	67.5 mg/m ³ (worker)
	Short-term local effects	101.2 mg/m ³ (worker)

CAS: 64-02-8 Tetrasodium ethylenediaminetetraacetate

Oral	Long-term systemic effects	25 mg/kg bw/day (general population)
Inhalative	Long-term systemic effects	1.5 mg/m ³ (worker)
	Short-term systemic effects	3 mg/m ³ (worker)
	Short-term local effects	1.2 mg/m ³ (general population)

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	Long-term local effects	3 mg/m ³ (worker) 600 µg/m ³ (general population) 1,500 µg/m ³ (worker)
CAS: 68955-55-5 Amines, C12-18(even numbered)-alkyldimethyl, N-oxides		
Oral	Long-term systemic effects	440 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	5.5 mg/kg bw/day (general population) 11 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	1.53 mg/m ³ (general population) 6.2 mg/m ³ (worker)
CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol		
Oral	Long-term systemic effects	180 µg/kg bw/day (general population)
	Short-term systemic effects	500 µg/kg bw/day (general population)
Dermal	Long-term systemic effects	2 mg/kg bw/day (worker)
	Short-term systemic effects	2.1 mg/kg bw/day (general population) 6 mg/kg bw/day (worker)
	Long-term systemic effects	700 µg/kg bw/day (general population)
	Long-term local effects	4 µg/kg bw/day (general population) 8 µg/kg bw/day (worker)
	Short-term local effects	4 µg/kg bw/day (general population) 8 µg/kg bw/day (worker)
Inhalative	Long-term systemic effects	3.5 mg/m ³ (worker)
	Short-term systemic effects	1.8 mg/m ³ (general population) 10.5 mg/m ³ (worker)
	Long-term local effects	2.5 mg/m ³ (worker)
	Short-term local effects	2.5 mg/m ³ (worker)
	Long-term systemic effects	600 µg/m ³ (general population)
	Long-term local effects	600 µg/m ³ (general population)
	Short-term local effects	600 µg/m ³ (general population)

· PNECs**CAS: 85586-07-8 Sodium lauryl sulphate**

Freshwater	131 µg/L
Freshwater - Intermittent releases	36 µg/L
Marine water	13.1 µg/L
Sewage Treatment Plant	1.35 mg/L
Sediment (freshwater)	4.61 mg/kg
Sediment (marine water)	461 µg/kg
Soil	846 µg/kg

CAS: 112-34-5 2-(2-Butoxyethoxy)ethanol

Freshwater	1.1 mg/L
Freshwater - Intermittent releases	11 mg/L
Marine water	110 µg/L
Sediment (freshwater)	4.4 mg/kg
Sediment (marine water)	440 µg/kg
Soil	320 µg/kg
Secondary poisoning	56 mg/kg food

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CAS: 64-02-8 Tetrasodium ethylenediaminetetraacetate

Freshwater	2.83 mg/L
Freshwater - Intermittent releases	1 mg/L
Marine water	283 µg/L
Marine Water - Intermittent releases	1 mg/L
Sewage Treatment Plant	50 mg/L
Soil	1.1 mg/kg

CAS: 68955-55-5 Amines, C12-18(even numbered)-alkyldimethyl, N-oxides

Freshwater	33.5 µg/L
Freshwater - Intermittent releases	33.5 µg/L
Marine water	3.35 µg/L
Sewage Treatment Plant	24 mg/L
Sediment (freshwater)	5.24 mg/kg
Sediment (marine water)	524 µg/kg
Soil	1.02 mg/kg
Secondary poisoning	11.1 mg/kg food

CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol

Freshwater	1.25 µg/L
Freshwater - Intermittent releases	265 ng/L
Marine water	520 ng/L
Sewage Treatment Plant	430 µg/L
Sediment (freshwater)	21.5 µg/kg
Sediment (marine water)	8.944 µg/kg
Soil	210 µg/kg

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat or drink while working.

Take note of assigned Workplace Exposure Limits.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Ensure that eyewash stations and safety showers are close to the workstation location.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A for organic vapours

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

· **Hand protection**



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the

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resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Tightly sealed goggles conforming to EN166.

· **Body protection:**



Protective work clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

· **Environmental exposure controls** Do not allow to enter drains, sewers or watercourses.

· **Risk management measures** The operators shall be instructed adequately.

SECTION 9: Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Colourless

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

Undetermined.

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

1.1 Vol % (CAS: 111-76-2 2-butoxyethanol)

· **Upper:**

10.6 Vol % (CAS: 111-76-2 2-butoxyethanol)

· **Flash point:**

> 60 °C

· **Decomposition temperature:**

Not determined.

· **pH at 20 °C**

10.5 – 11.5

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **Dynamic:**

Not determined.

· **Solubility**

· **water:**

Fully miscible.

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Vapour pressure:**

Not determined.

· **Density and/or relative density**

· **Density at 20 °C:**

1.033 – 1.053 g/cm³

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **Other information**

NOTE: The physical data presented above are typical values and should not be construed as a specification.

· **Appearance:**

· **Form:**

Liquid

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· **Important information on protection of health and environment, and on safety.**

- **Ignition temperature:** Product is not self-igniting.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Solvent content:**
- **Organic solvents:** 17.5 %
- **VOC (EC)** 17.50 %
- **Change in condition**
- **Evaporation rate** Not determined.

· **Information with regard to physical hazard classes**

- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

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SECTION 10: Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**
 - Strong acids and oxidising agents
 - Strong bases.
- **Hazardous decomposition products:**
 - Carbon monoxide and carbon dioxide
 - Sulphur oxides (SO_x)
 - Nitrogen oxides (NO_x)
 - Bromine compounds
 - Metal oxide

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SECTION 11: Toxicological information

- **Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if swallowed.

· **LD/LC50 values relevant for classification:**

Oral	LD50	1,830 mg/kg (rat)
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CAS: 85586-07-8 Sodium lauryl sulphate

Oral	LD50	1,260 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)
Inhalative	LC50/4 h	> 5 mg/l (rat)

CAS: 112-34-5 2-(2-Butoxyethoxy)ethanol

Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rabbit)

CAS: 64-02-8 Tetrasodium ethylenediaminetetraacetate

Oral	LD50	1,780 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (rat) (ATE)

CAS: 68955-55-5 Amines, C12-18(even numbered)-alkyldimethyl, N-oxides

Oral	LD50	1,913 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 5 mg/l (rat)

CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol

Oral	LD50	500 mg/kg (rat)
Dermal	LD50	1,600 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or 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** Based on available data, the classification criteria are not met.
- **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.
- **Information on other hazards**

• **Endocrine disrupting properties**

None of the ingredients are listed.

SECTION 12: Ecological information• **Toxicity**• **Aquatic toxicity:****CAS: 112-34-5 2-(2-Butoxyethoxy)ethanol**

EC50 (96 h) > 100 mg/l (Bacteria)

CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol

EC50 (96 h) 2.9 mg/l (Bacteria)

- **Persistence and degradability** The organic portion of the product is biodegradable.
- **Bioaccumulative potential** Contains components with the potential to bioaccumulate.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **Other adverse effects**
- **Remark:** Harmful to fish

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· **Additional ecological information:**

· **General notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralised.
 Harmful to aquatic organisms
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

· **Uncleaned packaging:**

· **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

Do not mix with other waste streams.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· **UN number or ID number**

· **ADR/RID/ADN, IMDG, IATA** Not applicable

· **UN proper shipping name**

· **ADR/RID/ADN, IMDG, IATA** Not applicable

· **Transport hazard class(es)**

· **ADR/RID/ADN, ADN, IMDG, IATA**

· **Class** Not applicable

· **Packing group**

· **ADR/RID/ADN, IMDG, IATA** Not applicable

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Not applicable.

· **Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**

Not dangerous according to the above specifications.

· **UN "Model Regulation":**

Not applicable

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SECTION 15: Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Poisons Act

· Regulated explosives precursors

None of the ingredients are listed.

· Regulated poisons

None of the ingredients are listed.

· Reportable explosives precursors

None of the ingredients are listed.

· Reportable poisons

None of the ingredients are listed.

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



GHS05 GHS07

· Signal word Danger

· Hazard-determining components of labelling:

Sodium lauryl sulphate
Tetrasodium ethylenediaminetetraacetate
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides

· Hazard statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P280 Wear protective gloves / eye protection / face protection.
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.
P330 Rinse mouth.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Relevant phrases

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.

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H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H400 Very toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

· **Training hints**

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

· **Department issuing SDS:** Product safety department.

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds (USA, EU)
 DNEL: Derived No-Effect Level (UK REACH)
 PNEC: Predicted No-Effect Concentration (UK REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 ATE: Acute toxicity estimate values
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· *** Data compared to the previous version altered.**

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