SAFETY DATA SHEET

REINIGER VII

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

1.1. Product identifier

Trade name

REINIGER VII

Product no.

5018

Unique formula identifier (UFI)

3TVE-407H-T00E-EHKX

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

▼Relevant identified uses of the substance or mixture

train wash (acidic), rust and corrosion remover
Restricted to professional and industrial use.

Use descriptors (REACH)

Sectors of use	**Description**
LCS "IS"	Industrial uses: Uses of substances as such or in preparations at industrial sites
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product category	**Description**
PC 35	Washing and Cleaning Products (including solvent based products)
Process category	**Description**
PROC 28	Manual maintenance (cleaning and repair) of machinery
PROC 8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

Knud E. Dan A/S
Lunikvej 40
2670 Greve
Denmark
+45 43692422
+45 43690578

Contact person

Lars Bøgeholm

E-mail

lbj@knudedan.dk

Revision

10/04/2026

SDS Version

3.0

Date of previous version

10/11/2022 (2.0)

1.4. Emergency telephone number

Contact the poison hotline: +45 82 12 12 12 (24 hour service)
See section 4 “First aid measures”.

SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

Skin Corr. 1; H314, Causes severe skin burns and eye damage.
Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s)

▼General

Not applicable.

▼Prevention

Do not breathe vapour/mist. (P260)
Wear eye protection/protective gloves/protective clothing. (P280)

▼Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (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)
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)

▼Storage

Not applicable.

▼Disposal

Not applicable.

Hazardous substances

oxalic,acid,dihydrate
Phosphoric acid, mixed esters with Bu alc. and ethylene glycol
Alcohols, C9-11 ethoxylated, primær liniar
Propylheptanolethoxilate

Additional labelling

UFI: 3TVE-407H-T00E-EHKX

▼Labelling of contents according to Detergents Regulation (EC) No 648/2004 (applicable to packaging of detergents sold to the general public)

< 5%
· Anionic surfactants
· Non-ionic surfactants

2.3. Other hazards

▼Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. ▼Substances

Not applicable. This product is a mixture.

3.2. ▼Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
citric acid	CAS No.: 77-92-9 EC No.: 201-069-1 REACH: 01-2119457026-42-XXXX Index No.: 607-750-00-3	5-10%	Eye Irrit. 2, H319 STOT SE 3, H335	
oxalic,acid,dihydrate	CAS No.: 6153-56-6 EC No.: 612-167-2 REACH: 01-2119534576-33-xxxx Index No.:	3-5%	Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Dam. 1, H318	
2-(2-butoxyethoxy)ethanol	CAS No.: 112-34-5 EC No.: 203-961-6 REACH: 01-2119475104-xxxx Index No.: 603-096-00-8	3-5%	Eye Irrit. 2, H319	[1], [3]
Phosphoric acid, mixed esters with Bu alc. and ethylene glycol	CAS No.: 84962-20-9 EC No.: 284-716-0 REACH: 01-2119969464-25-0000 Index No.:	1-3%	Met. Corr. 1, H290 Eye Dam. 1, H318	
Alcohols, C9-11 ethoxylated, primær liniar	CAS No.: 68439-46-3 EC No.: REACH: Index No.:	1-3%	Acute Tox. 4, H302 Eye Dam. 1, H318	[19]
Propylheptanolethoxilate	CAS No.: 160875-66-1 EC No.: REACH: Index No.:	1-3%	Acute Tox. 4, H302 Eye Dam. 1, H318 (SCL: 10.00 %)	
SODIUM CUMENE SULPHONATE	CAS No.: 15763-76-5 EC No.: 239-854-6 REACH: 01-2119489411-37-XXXX Index No.:	1-3%	Eye Irrit. 2, H319	

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.
[3] According to REACH, Annex XVII, the substance is subject to restrictions.
[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

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

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on

follow-up and treatment.
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

If in eyes: Flush eyes with plenty of water or saline solution (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. 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 from returning to the 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

Not applicable.

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 chemical emergency services on 72 85 20 00 (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.
Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

6.3. ▼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.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on 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 conditions

5 - 25 °C

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-(2-butoxyethoxy)ethanol
Long term exposure limit (8 hours) (mg/m³): 68
Long term exposure limit (8 hours) (ppm): 10
Short term exposure limit (15 minutes) (mg/m³): 101
Short term exposure limit (15 minutes) (ppm): 15
Annotations:
E = Substance has an EC limit.

orthophosphoric acid
Long term exposure limit (8 hours) (mg/m³): 1
Short term exposure limit (15 minutes) (mg/m³): 2
Annotations:
E = Substance has an EC limit.

Statutory order 1356 on exposure limits for substances and mixtures (19/11/2025)

▼DNEL

2-(2-butoxyethoxy)ethanol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	10 mg/kg uge/dag
Long term – Systemic effects - Workers	Dermal	20 mg/kg/ uge/dag
Long term – Local effects	Inhalation	5 mg/m3
Long term – Local effects - Workers	Inhalation	10 ppm
Long term – Local effects - Workers	Inhalation	67.5 mg/m³
Long term – Systemic effects - General population	Inhalation	5 mg/kg uge/dag
Long term – Systemic effects - Workers	Inhalation	10 ppm
Short term – Local effects - General population	Inhalation	7,5 ppm
Short term – Local effects - Workers	Inhalation	14 ppm

Short term – Local effects - Workers	Inhalation	101.2 mg/m³
Long term – Systemic effects - General population	Oral	6.25 mg/kg bw/day
Short term	Oral	1,3 mg/kg uge/dag

orthophosphoric acid

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	360 µg/m³
Long term – Local effects - Workers	Inhalation	1 mg/m³
Long term – Systemic effects - General population	Inhalation	4.57 mg/m³
Long term – Systemic effects - Workers	Inhalation	10.7 mg/m³
Short term – Local effects - Workers	Inhalation	2 mg/m³
Long term – Systemic effects - General population	Oral	100 µg/kg bw/day

oxalic,acid,dihydrate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	0,315 mg/kg
Long term – Systemic effects - Workers	Dermal	0,882 mg/kg
Short term – Local effects - General population	Dermal	0,5 mg/cm2
Short term – Local effects - Workers	Dermal	0,69 mg/ cm2
Long term – Systemic effects - General population	Inhalation	0,466 mg/m3
Long term – Systemic effects - Workers	Inhalation	3,11 mg/m3
Long term – Systemic effects - General population	Oral	0,315 mg/kg

Phosphoric acid, mixed esters with Bu alc. and ethylene glycol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	2.5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	5 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	89.4 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	178.8 mg/kg bw/day
Long term – Local effects - General population	Inhalation	10 mg/m³
Long term – Local effects - Workers	Inhalation	10 mg/m³
Long term – Systemic effects - General population	Inhalation	4.3 mg/m³
Long term – Systemic effects - Workers	Inhalation	17.6 mg/m³
Short term – Local effects - General population	Inhalation	10 mg/m³
Short term – Local effects - Workers	Inhalation	10 mg/m³
Short term – Systemic effects - General population	Inhalation	310.9 mg/m³
Short term – Systemic effects - Workers	Inhalation	1260.7 mg/m³
Long term – Systemic effects - General population	Oral	2.5 mg/kg bw/day
Short term – Systemic effects - General population	Oral	89.4 mg/kg bw/day

SODIUM CUMENE SULPHONATE

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	7,6 mg/kg kropsvægt/dag
Long term – Systemic effects - Workers	Inhalation	56,6 mg/m3

▼PNEC

2-(2-butoxyethoxy)ethanol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		1 mg/l
Freshwater		1.1 mg/L
Freshwater sediment		4 mg/l
Freshwater sediment		4.4 mg/kg
Intermittent release (freshwater)		11 mg/L
Marine water		0,1 mg/l
Marine water		110 µg/L
Marine water sediment		0,4 mg/l
Marine water sediment		440 µg/kg
Sewage treatment plant		200 mg/l
Soil		0,4 mg/l

citric acid

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,44
Freshwater sediment		3,46 mg/kg
Marine water		0,044 mg/L
Marine water sediment		34,6 mg/kg
Sewage treatment plant		>1000 mg/l
Soil		33,1 mg/kg

oxalic,acid,dihydrate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,1622 mg/l
Marine water	Continuous	0,01622 mg/l
Sewage treatment plant	Continuous	1550 mg/l
Water	Continuous	1,622 mg/l

Phosphoric acid, mixed esters with Bu alc. and ethylene glycol

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		100 µg/L
Freshwater sediment		392 µg/kg
Intermittent release (freshwater)		1 mg/L
Marine water		10 µg/L
Marine water sediment		39.2 µg/kg
Predators		6.67 mg/kg
Sewage treatment plant		100 mg/L
Soil		19.7 µg/kg

SODIUM CUMENE SULPHONATE

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,23 mg/l
Intermittent release		2,3 mg/l
Sewage treatment plant		100 mg/l

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

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
Ensure that eyewash stations and safety showers are located within easy reach.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

▼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. Pay special attention to 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

Wash contaminated clothing before reuse.
In the event the work process is within scope of the Danish statutory order on work with code numbered products (Work Inspectorate Order no. 302/1993), then personal protection equipment shall be selected as set out herein. If applicable, please refer to the code number of this product in section 15.
Use only CE marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards
Respiratory protection is not needed in the event of adequate ventilation	-	-	-

Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.11	> 240	EN374-2, EN374-3, EN388	

Eye protection

Type	Standards	
Safety glasses	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
Acidic

pH
1

Density (g/cm³)
1.1

▼Kinematic viscosity
No data available.

Particle characteristics
Does not apply to liquids.

Phase changes

▼Melting point/Freezing point (°C)
No data available.

Softening point/range (°C)
Does not apply to liquids.

Boiling point (°C)
100

▼Vapour pressure
No data available.

▼Relative vapour density
No data available.

▼Decomposition temperature (°C)
No data available.

Data on fire and explosion hazards

Flash point (°C)
Testing not relevant or not possible due to nature of the product.

Flammability (°C)
Testing not relevant or not possible due to nature of the product.

Auto-ignition temperature (°C)
Testing not relevant or not possible due to nature of the product.

▼Lower and upper explosion limit (% v/v)
No data available.

Solubility

Solubility in water
Completely soluble

▼n-octanol/water coefficient (LogKow)
No data available.

▼Solubility in fat (g/L)
No data available.

9.2. Other information

Other physical and chemical parameters
No data available.

▼Oxidizing properties
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
None known.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. ▼Hazardous decomposition products
Thermal decomposition may produce corrosive vapours.

SECTION 11: Toxicological information

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

▼Acute toxicity

Product/substance	citric acid
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	3000 mg/kg ·

Product/substance	citric acid
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg ·

Product/substance	oxalic,acid,dihydrate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>375 mg/L

Product/substance	oxalic,acid,dihydrate
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/L

Product/substance	2-(2-butoxyethoxy)ethanol
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	2700 mg/kg ·

Product/substance	2-(2-butoxyethoxy)ethanol
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	2410 mg/kg ·

Product/substance	Propylheptanolethoxilate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>300-2000 mg/kg ·

Product/substance	SODIUM CUMENE SULPHONATE

Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	> 7000 mg/kg

Product/substance	SODIUM CUMENE SULPHONATE
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	> 2000 mg/kg

Product/substance	orthophosphoric acid
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	2740 mg/kg ·

Product/substance	orthophosphoric acid
Species:	Rabbit
Route of exposure:	Dermal
Result:	ætsende virkning ·

Product/substance	orthophosphoric acid
Species:	Rat
Route of exposure:	Oral
Test:	LC50
Result:	300-2000 mg/kg

Product/substance	orthophosphoric acid
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50 (2 hours)
Result:	850 mg/L

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

▼ Skin corrosion/irritation

Product/substance	SODIUM CUMENE SULPHONATE
Test method:	OECD 404
Species:	Rabbit
Duration:	No data available.

Causes severe skin burns and eye damage.

▼ Serious eye damage/irritation

Product/substance	Propylheptanolethoxilate
Test method:	no guideline followed
Duration:	No data available.
Result:	10 % IVI

Product/substance	Propylheptanolethoxilate
Duration:	No data available.
Result:	10 % solution: IVIS score 2,5

Product/substance	SODIUM CUMENE SULPHONATE
Test method:	OECD 405
Species:	Rabbit
Duration:	No data available.

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

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.

▼Symptoms related to the physical, chemical and toxicological characteristics

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.

11.2. Information on other hazards

▼Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: Ecological information

12.1. ▼Toxicity

Product/substance	citric acid
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	440-760 mg/l ·

Product/substance	citric acid
Species:	Daphnia
Duration:	72 hours
Test:	LD50
Result:	120 mg/l ·

Product/substance	citric acid
Species:	Algae
Duration:	168 hours
Test:	LD50
Result:	640 mg/l ·

Product/substance	citric acid
Species:	Fish
Duration:	48 hours
Test:	LC50
Result:	440 mg/l ·

Product/substance	oxalic,acid,dihydrate
Species:	Fish
Duration:	48 hours
Test:	LC50

Result:	160 mg/l mg/L

Product/substance	oxalic,acid,dihydrate
Species:	Algae
Duration:	7 days
Test:	EC50
Result:	80 mg/L

Product/substance	oxalic,acid,dihydrate
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	162,2 mg/L

Product/substance	2-(2-butoxyethoxy)ethanol
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	1300 mg/l ·

Product/substance	2-(2-butoxyethoxy)ethanol
Species:	Daphnia
Duration:	24 hours
Test:	LD50
Result:	3200 mg/l ·

Product/substance	2-(2-butoxyethoxy)ethanol
Species:	Algae
Duration:	96 hours
Test:	LD50
Result:	>100 mg/l ·

Product/substance	Alcohols, C9-11 ethoxylated, primær liniar
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	23,7 mg/l ·

Product/substance	Alcohols, C9-11 ethoxylated, primær liniar
Species:	Algae
Duration:	48 hours
Test:	EC50
Result:	13,4 mg/l ·

Product/substance	Propylheptanolethoxilate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	>10-100 mg/l ·

Product/substance	Propylheptanolethoxilate
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	>10-100 mg/l ·

Product/substance	Propylheptanolethoxilate
Species:	Daphnia
Duration:	48 hours

Test:	EC50
Result:	>10-100 mg/l ·

Product/substance	SODIUM CUMENE SULPHONATE
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	>1000 mg/L

Product/substance	SODIUM CUMENE SULPHONATE
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	>1000 mg/L

Product/substance	orthophosphoric acid
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	138 mg/l ·

Product/substance	orthophosphoric acid
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	> 100 mg/L

Product/substance	orthophosphoric acid
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	>100 mg/L

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

12.2. ▼Persistence and degradability

Product/substance	citric acid
Result:	97 %
Conclusion:	-
Test:	TG 301 B - CO2 Evolution Test - 60% ThCO2

Product/substance	2-(2-butoxyethoxy)ethanol
Result:	90-100
Conclusion:	-
Test:	TG 301 E- Test Modified OECD Screening Test -70%

Product/substance	Alcohols, C9-11 ethoxylated, primær liniar
Result:	>60 %
Conclusion:	-
Test:	TG 301 F - Manometric Respirometry Test - 60%

Product/substance	Propylheptanolethoxilate
Result:	letnedbrydeligt
Conclusion:	-
Test:	TG 301 D - Closed Bottle Test - 60%

Product/substance	SODIUM CUMENE SULPHONATE
Conclusion:	-

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent

authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. ▼Bioaccumulative potential

Product/substance	2-(2-butoxyethoxy)ethanol
LogKow:	0,5600
Conclusion:	-

Product/substance	SODIUM CUMENE SULPHONATE
LogKow:	< 1
Conclusion:	-

Product/substance	orthophosphoric acid
Conclusion:	-

12.4. Mobility in soil

No data available.

12.5. ▼Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. ▼Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. ▼Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)
HP 8 – Corrosive
Dispose of contents/container to an approved waste disposal plant.
Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

▼EWC code

07 06 99 Wastes not otherwise specified

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/ADN/RID	UN1760	CORROSIVE LIQUID, N.O.S.	Transport hazard class: 8 Label: 8 Classification code: C9 	III	No	Limited quantities: 5 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1760	CORROSIVE LIQUID, N.O.S.	Transport hazard class: 8 Label: 8 Classification code: C9 	III	No	Limited quantities: 5 L EmS: F-A S-B See below for additional information.

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
IATA	UN1760	CORROSIVE LIQUID, N.O.S.	Transport hazard class: 8 Label: 8 Classification code: C9 	III	No	See below for additional information.

* Packing group

** Environmental hazards

▼Additional information

This product is within scope of the regulations of transport of dangerous goods.
ADR/ADN/RID / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See 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.

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.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

▼REACH, Annex XVII

2-(2-butoxyethoxy)ethanol is subject to REACH restrictions (entry 55).

▼Labelling of contents according to Detergents Regulation (EC) No 648/2004

< 5%
· Anionic surfactants
· Non-ionic surfactants

Product registration number

268411

▼Regulation on work involving coded products

Code number (1993): 00-3

▼Additional information

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

▼Sources

The Danish Working Environment Authority's executive order no. 1713 of 18. Dec 2025 on young people's work.
Based on Council Directive 94/33 / EC of 22 June 1994 on the protection of young people at work.
Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.
Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.
Arbejdstilsynets bekendtgørelse nr. 301 af 13. maj 1993 om fastsættelse af kodenumre med senere ændringer.

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

H290, May be corrosive to metals.
H302, Harmful if swallowed.
H312, Harmful in contact with skin.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H335, May cause respiratory irritation.

The full text of identified uses as mentioned in section 1

LCS "IS" = Industrial uses: Uses of substances as such or in preparations at industrial sites
LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
PROC 28 = Manual maintenance (cleaning and repair) of machinery
PROC 8a = Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PC 35 = Washing and Cleaning Products (including solvent based products)

▼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 (European conformity)
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
EC = Effective concentration
ED = Effective dose
EINECS = European Inventory of Existing Commercial chemical Substances
EL = Effective Loading
ErC = Concentration associated with x% growth rate response
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
HP = Hazardous Property code
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IC = X maximum inhibitory concentration
IMDG = International Maritime Dangerous Goods
LC = Lethal concentration
LCLo = Value is the lowest concentration of a material in air reported to have caused the death of animals or humans
LD = Lethal dose
LOAEC = Lowest Observed Adverse Effect Concentration
LOAEL = Lowest Observed Adverse Effect Level

LOEC = Lowest Observed Effect Concentration
LogKow = logarithm of the n-octanol/water coefficient
LL = Lethal Loading
M = For multiplication factor
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NOAEC = No Observed Adverse Effect Concentration
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
NOELR = No Observable Effect Loading Rate
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
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

▼Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).
The classification of the substance/mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

lbj

▼Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a 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: DK-en