



Ragebøl, 30/09 2021

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Reiniger für Imkereien

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

1.1 Product identifier

Trade name:	Reiniger für Imkereien
Registration number (REACH)	not relevant (mixture)
CAS number	not relevant (mixture)

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

Relevant identified uses	Alkaline cleaner/detergent
Uses advised against	Do not use for squirting or spraying Do not use for products which come into direct contact with the skin

1.3 Emergency telephone number

Contact your next toxicological information centre.

In Denmark: Giftlinjen - 82 12 12 12

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.16	Substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.2	skin corrosion/irritation	1	Skin Corr. 1	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

for full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word

danger

Pictograms

GHS05



Hazard statements

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

Precautionary statements

P260

Do not breathe mist/vapours/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338

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

P310

Immediately call a POISON CENTER/doctor.

Hazardous ingredients for labelling

sodium hydroxide

D-glucopyranose, oligomers, decyl octyl glycosides

sodium bis(2-ethylhexyl) sulfosuccinate

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,

N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts

2.3 Other hazards

There is no additional information.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not relevant (mixture)

3.2 Mixtures**Description of the mixture****Hazardous ingredients**

Name of substance	Identifier	Wt%	Classification acc. To GHS	Pictograms	Notes	Specific Conc. Limits
sodium hydroxide	CAS No 1310-73-2 EC No 215-185-5	10 – < 25	Met. Corr. 1 / H290 Skin Corr. 1A / H314 Eye Dam. 1 / H318		GHS- HC	Skin Corr. 1A; H314: C ≥ 5 %Skin Corr. 1B;

	Index No 011-002-00-6 REACH Reg. No 01- 2119457892- 27					H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 %Eye Dam. 1; H318: C ≥ 2 %Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %
D- glucopyranose, oligomers, decyl octyl glycosides	CAS No 68515-73-1 EC No 500-220-1 REACH Reg. No 01- 2119488530- 36	1 – < 5	Eye Dam. 1 / H318			
sodium (2-ethyl- hexyl)sulfate	CAS No 126-92-1 EC No 204-812-8 REACH Reg. No 01- 2119971586- 23-xxxx	1 – < 5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318			Eye Dam. 1; H318: C ≥ 20 %Eye Irrit. 2; H319: 10 % ≤ C < 20 %
sodium bis(2- ethylhexyl) sulfosuccinate	CAS No 577-11-7 EC No 209-406-4 REACH Reg. No 01- 2119457610- 43-xxxx	1 – < 5	Skin Irrit. 2 / H315			

1-Propanamini- um, 3-amino-N- (carboxymethyl)- N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydrox- ides, inner salts	EC No 931-513-6	1 – < 5	Eye Dam. 1 / H318 Aquatic Chronic 3 /H412		Eye Dam. 1; H318: C ≥ 10 %Eye Irrit. 2; H319: 4 % ≤ C < 10 %
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Notes

GHS-HC

Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

for full text of H-phrases: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Remove affected person from the danger area and lay down.

Do not leave affected person unattended.

Self-protection of the first aider.

Take off immediately all contaminated clothing.

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

Following skin contact

After contact with skin, wash immediately with plenty of water.

Call a physician immediately. Causes poorly healing wounds.

Following eye contact

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Get immediate medical advice/attention.

Notes for the doctor

None

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Non-combustible, co-ordinate firefighting measures to the fire surroundings

Unsuitable extinguishing media

None

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Substance or mixture corrosive to metals.

Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO₂), Corrosive gases / vapors

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

chemical protective clothing, self-contained breathing apparatus (SCBA)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Avoid contact with skin and eyes.

Avoid breathing mist/vapours/spray.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to clean up a spill

Collect spillage.

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation.

Avoid contact with skin and eyes.

Avoid breathing mist/vapours/spray.

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Use only in well-ventilated areas.

Specific notes/details

None.

Handling of incompatible substances or mixtures

Do not mix with acids.

Keep away from

acids, keep away from metals, hypochlorites

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

Flammability hazards

None.

Incompatible substances or mixtures

Incompatible materials: see section 10.

Observe hints for combined storage.
Store away from acids.

Protect against external exposure, such as
heat, frost

Consideration of other advice
Keep away from food, drink and animal feedingstuffs.

Ventilation requirements
Provision of sufficient ventilation.

Specific designs for storage rooms or vessels
Keep container tightly closed.
Keep cool.

Storage temperature recommended storage temperature: 15-20 °C
Packaging compatibilities Keep only in original container.

7.3 Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
GB	Sodium hydroxide	1310-73-2	WEL				2	EH40/2005

Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
sodium hydroxide	1310-73-2	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	chronic – local effects
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	DNEL	420 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	DNEL	595,000 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
sodium (2-ethyl-hexyl) sulfate	126-92-1	DNEL	4,060 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
sodium (2-ethyl-hexyl) sulfate	126-92-1	DNEL	285 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
sodium bis(2-ethyl-hexyl) sulfosuccinate	577-11-7	DNEL	200.9 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
sodium bis(2-ethyl-hexyl) sulfosuccinate	577-11-7	DNEL	1,417 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1-Propanaminium, 3-amino-N-(carboxy-methyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		DNEL	44 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
1-Propanaminium, 3-amino-N-(carboxy-methyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl)		DNEL	12.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

derivs., hydroxides, inner salts						
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Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	0.176 mg/l	freshwater
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	0.018 mg/l	marine water
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	560 mg/l	sewage treatment plant (STP)
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	1.516 mg/kg	freshwater sediment
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	0.152 mg/kg	marine sediment
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	PNEC	0.654 mg/kg	soil
sodium (2-ethylhexyl) sulfate	126-92-1	PNEC	0.1357 mg/l	freshwater
sodium (2-ethylhexyl) sulfate	126-92-1	PNEC	0.01357 mg/l	marine water
sodium (2-ethylhexyl) sulfate	126-92-1	PNEC	1.35 mg/l	sewage treatment plant (STP)
sodium (2-ethylhexyl) sulfate	126-92-1	PNEC	1.5 mg/kg	freshwater sediment
sodium (2-ethylhexyl) sulfate	126-92-1	PNEC	0.15 mg/kg	marine sediment
sodium (2-ethylhexyl) sulfate	126-92-1	PNEC	4.83 mg/l	water
sodium (2-ethylhexyl) sulfate	126-92-1	PNEC	0.22 mg/kg	soil
sodium bis(2-ethylhexyl) sulfosuccinate	577-11-7	PNEC	0.18 mg/l	freshwater
sodium bis(2-ethylhexyl) sulfosuccinate	577-11-7	PNEC	0.018 mg/l	marine water
sodium bis(2-ethylhexyl) sulfosuccinate	577-11-7	PNEC	12.2 mg/l	sewage treatment plant (STP)

Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
sodium bis(2-ethylhexyl) sulfosuccinate	577-11-7	PNEC	17.79 mg/kg	freshwater sediment
sodium bis(2-ethylhexyl) sulfosuccinate	577-11-7	PNEC	1.779 mg/kg	marine sediment

sodium bis(2-ethylhexyl) sulfosuccinate	577-11-7	PNEC	1.04 mg/kg	soil
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		PNEC	0.013 mg/l	freshwater
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		PNEC	0.001 mg/l	marine water
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		PNEC	3,000 mg/l	sewage treatment plant (STP)
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		PNEC	1 mg/kg	freshwater sediment
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		PNEC	0.1 mg/kg	marine sediment
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		PNEC	0.8 mg/kg	soil

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Hand protection

Protective gloves

Material	Material thickness	Breakthrough times of the glove material
NBR: acrylonitrile-butadiene rubber	≥ 0,6 mm	DNEL

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Other protection measures

Protective clothing against liquid chemicals.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Appearance

Physical state	liquid
Form	fluid
Colour	yellow-brown
Odour	product specific
Odour threshold	this information is not available

Other safety parameters

pH (value)	>12 (20 °C)
Melting point/freezing point	this information is not available
Initial boiling point & boiling range	> 100 °C
Flash point	this information is not available
Evaporation rate	not relevant (fluid)
Flammability (solid, gas)	

Explosive limits

Lower explosion limit (LEL)	this information is not available
Upper explosion limit (UEL)	this information is not available
Vapour pressure	this information is not available

Density	1.1 – 1.15 g/cm ³
Vapour density	this information is not available
Relative density	this information is not available
Solubility(ies)	
Water solubility	miscible in any proportion
Partition coefficient	
n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	this information is not available
Relative self-ignition temperature for solids	not relevant (fluid)
Decomposition temperature	this information is not available
Viscosity	
Kinematic viscosity	this information is not available
Dynamic viscosity	this information is not available
Explosive properties	not explosive
Oxidising properties	shall not be classified as oxidizing

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

Substance or mixture corrosive to metals.

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

Dangerous/dangerous reactions with:

Oxidiser Acids.

Light metals (due to the release of hydrogen in an acid/alkaline medium).

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

acids, strong oxidiser

Release of flammable materials with:

light metals (due to the release of hydrogen in an acid/alkaline medium)

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification procedure

If not otherwise specified the classification is based on: Ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Method	Source
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	oral	LD50	>2,000 mg/kg	rat	OECD Guideline 423	ECHA
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	dermal	LD50	>2,000 mg/kg	rabbit	OECD Guideline 402	ECHA
sodium (2-ethylhexyl) sulfate	126-92-1	oral	LD50	7,570 mg/kg	rat		ECHA
sodium bis(2-ethylhexyl) sulfosuccinate	577-11-7	oral	LD50	>2,100 mg/kg	rat	OECD Guideline 401	ECHA
sodium bis(2-ethylhexyl) sulfosuccinate	577-11-7	oral	LD50	>3,000 mg/kg	rat	OECD Guideline 401	ECHA
sodium bis(2-ethylhexyl) sulfosuccinate	577-11-7	dermal	LD50	>10,000 mg/kg	rabbit, male	OECD Guideline 402	ECHA
1-Propanaminium, 3-amino-N-		oral	LD50	2,335 mg/kg	rat		ECHA

(carboxymethyl)- N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts							
1-Propanaminium, 3- amino-N- (carboxymethyl)- N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		dermal	LD50	>2,000 mg/kg	rat		ECHA

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Classification procedure

The classification is based on an extreme pH value.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Respiratory sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Carcinogenicity

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Reproductive toxicity

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - single exposure

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - repeated exposure

Classification could not be established because:
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Test data are not available for the complete mixture.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Source	Exposure time
sodium hydroxide	1310-73-2	EC50	40.4 mg/l	Ceriodaphnia dubia (water flea)	ECHA	48 h
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	LC50	100.8 mg/l	zebra fish (Danio rerio)	ECHA	96 h
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	EC50	>100 mg/l	daphnia magna	ECHA	48 h
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	ErC50	27.22 mg/l	algae (Desmodesmus subspicatus)	ECHA	72 h

sodium (2-ethylhexyl) sulfate	126-92-1	EC50	483 mg/l	daphnia magna	ECHA	48 h
sodium (2-ethylhexyl) sulfate	126-92-1	ErC50	>511 mg/l	algae (Desmodesmus subspicatus)	ECHA	72 h
sodium bis (2-ethylhexyl) sulfosuccinate	577-11-7	LC50	49 mg/l	zebra fish (Danio rerio)	ECHA	96 h
sodium bis (2-ethylhexyl) sulfosuccinate	577-11-7	EC50	34.9 mg/l	daphnia magna	ECHA	48 h
sodium bis (2-ethylhexyl) sulfosuccinate	577-11-7	EbC50	39.3 mg/l	algae (Desmodesmus subspicatus)	ECHA	72 h
sodium bis(2-ethylhexyl) sulfosuccinate	577-11-7	ErC50	82.5 mg/l	algae (Desmodesmus subspicatus)	ECHA	72 h
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		LC50	1.11 mg/l	fish	ECHA	96 h
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		EC50	1.9 mg/l	aquatic invertebrates	ECHA	48 h

Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
sodium (2-ethylhexyl) sulfate	126-92-1	NOEC	103 mg/l	algae (Desmodesmus subspicatus)	EU method C.3	ECHA	72 h

sodium (2-ethylhexyl) sulfate	126-92-1	growth rate (ErCx) 10%	199 mg/l	algae (Desmodesmus subspicatus)	EU method C.3	ECHA	72 h
sodium bis (2-ethylhexyl) sulfosuccinate	577-11-7	reproductive output 10%	9 mg/l	daphnia magna	OECD 211	ECHA	21 d
sodium bis (2-ethylhexyl) sulfosuccinate	577-11-7	growth (Eb-Cx) 10%	12.4 mg/l	algae (Desmodesmus subspicatus)	EU C.3	ECHA	72 h
sodium bis(2-ethylhexyl) sulfosuccinate	577-11-7	growth rate (ErCx) 10%	22 mg/l	algae (Desmodesmus subspicatus)	EU C.3	ECHA	72 h
1-Propanaminium , 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		EC50	>30 mg/l	aquatic invertebrates		ECHA	24 h
1-Propanaminium , 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		NOEC	0.16 mg/l	fish		ECHA	28 d
1-Propanaminium , 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		NOEC	0.135 mg/l	fish	OECD Guideline 210	ECHA	100 d

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		LOEC	0.5 mg/l	fish		ECHA	28 d
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12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1	DOC removal	100 %	28 d	OECD Guideline 301	ECHA
sodium (2-ethylhexyl)sulfate	126-92-1	carbon dioxide generation	89.3 %	28 d		ECHA
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,Ndimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		biotic/abiotic	95 %	28 d	92/32/EWG	producer

Biodegradation

Data are not available.

Persistence

Data are not available.

12.3 Bioaccumulative potential

None.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW
sodium hydroxide	1310-73-2		-3.88
D-glucopyranose, oligomers, decyl octyl glycosides	68515-73-1		1.72 (pH value: 6.5, 40 °C)
sodium (2-ethylhexyl) sulfate	126-92-1		-0.2476 (pH value: 8.97, 25 °C)
sodium bis(2-ethylhexyl) sulfosuccinate	577-11-7		
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C12-18(even numbered) acyl) derivs., hydroxides, inner salts		3	1.79 (20 °C)

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

Harmful effect on fish, plankton and other organisms due to pH shift possible.

Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packages

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1 UN number	1824
14.2 UN proper shipping name	SODIUM HYDROXIDE SOLUTION
14.3 Transport hazard class(es)	
Class	8
14.4 Packing group	II
14.5 Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations**Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).**

UN number	1824
Proper shipping name	UN1824, SODIUM HYDROXIDE SOLUTION, 8, II, (E)
Class	8
Classification code	C5
Packing group	II
Danger label(s)	8
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2.
Tunnel restriction code (TRC)	E
Hazard identification No	80
Emergency Action Code	2R

International Maritime Dangerous Goods Code (IMDG)

UN number	1824
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Proper shipping name	UN1824, SODIUM HYDROXIDE SOLUTION, 8, II
Class	8
Marine pollutant	-
Packing group	II
Danger label(s)	8



Special provisions (SP)	-
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-A, S-B
Stowage category	A
Segregation group	18 – Alkalis.

International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	1824
Proper shipping name	UN1824, Sodium hydroxide solution, 8, II
Class	8
Packing group	II
Danger label(s)	8



Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	0,5 L

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU) Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)

Name of substance	Name acc. to inventory	Restriction	No
Reiniger für Imkereien	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3

Legend

R3 1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

2. Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:

- can be used as fuel in decorative oil lamps for supply to the general public, and,
- present an aspiration hazard and are labelled with R65 or H304,

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).

5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

(a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';

(b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';

(c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.

6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.

7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

Seveso Directive

Not assigned.

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Regulation 648/2004/EC on detergents

Labelling of contents

Wt%	Constituents
< 5 %	anionic surfactants amphoteric surfactants non-ionic surfactants

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

none of the ingredients are listed

Regulation 98/2013/EU on the marketing and use of explosives precursors

none of the ingredients are listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Indication of changes: Section 2, 3, 7, 8, 11, 12, 15

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule

ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
Met. Corr.	Substance or mixture corrosive to metals
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern

TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.