

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Nilfisk Rim Top_105301660

Product no.

105301660

REACH registration number

Not applicable

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

Relevant identified uses of the substance or mixture

Chemicals for industrial purposes

Uses advised against

-

The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

Nilfisk A/S
Kornmarksvej 1
Brøndby
DK-2605
Tlf.: +45 43 23 40 50

Contact person

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E-mail

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SDS date

2016-12-22

SDS Version

2.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Corr. 1; H314

Eye Dam. 1; H318

See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)**Signal word**

Danger

Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Safety statement(s)

General	-
Prevention	Do not breathe mist/vapours/fume/spray. (P260). Wear eye protection/protective clothing/protective gloves. (P280).
Response	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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).
Storage	-
Disposal	-

Identity of the substances primarily responsible for the major health hazards

orthophosphorsyre, Fedtalkoholethoxylat, CMIT/MIT

2.3. Other hazards

-

Additional labelling

-

Additional warnings

VOC

-

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	2-(2-butoxyethoxy)ethanol
IDENTIFICATION NOS.:	CAS-no: 112-34-5 EC-no: 203-961-6 Index-no: 603-096-00-8
CONTENT:	5-10%
CLP CLASSIFICATION:	Eye Irrit. 2 H319
NOTE:	L
NAME:	orthophosphorsyre
IDENTIFICATION NOS.:	CAS-no: 7664-38-2 EC-no: 231-633-2 Index-no: 015-011-00-6
CONTENT:	5-10%
CLP CLASSIFICATION:	Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1 H290, H314, H318
NOTE:	L
NAME:	citronsyre
IDENTIFICATION NOS.:	CAS-no: 77-92-9 EC-no: 201-069-1
CONTENT:	1-3%
CLP CLASSIFICATION:	Eye Irrit. 2 H319
NAME:	Fedtalkoholethoxylat
IDENTIFICATION NOS.:	CAS-no: 69011-36-5 EC-no: - REACH-no: 02-2119549526-31-0000
CONTENT:	1-3%
CLP CLASSIFICATION:	Eye Dam. 1, Acute Tox. 4 H318, H302
NAME:	2-phosphonobutan-1,2,4-tricarboxylsyre
IDENTIFICATION NOS.:	CAS-no: 37971-36-1 EC-no: 253-733-5
CONTENT:	1-3%
CLP CLASSIFICATION:	Met. Corr. 1, Eye Irrit. 2 H290, H319
NAME:	CMIT/MIT
IDENTIFICATION NOS.:	CAS-no: 55965-84-9 Index-no: 613-167-00-5
CONTENT:	<0.0001%
CLP CLASSIFICATION:	Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1 H301, H311, H314, H317, H331, H400, H410

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

L = European occupational exposure limit.

Other information

ATEmix(inhale, vapour) > 20
ATEmix(inhale, dust/mist) > 20

ATEmix(inhale, dust/mist) > 20000
ATEmix(dermal) > 2000
ATEmix(oral) > 2000
Eye Cat. 1 Sum = Sum(Ci/S(G)CLi) = 2,2512 - 3,3768
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,6336 - 0,9504
Detergent:
< 5%: NON-IONIC SURFACTANTS, PRESERVATIVE (CMIT/MIT)

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. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). 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

Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

Skin contact

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

Eye contact

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

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

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.

This product contains substances that may trigger an allergic reaction to predisposed persons.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

No special

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. 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.

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances. Avoid inhalation of vapours from spilled material.

6.2. Environmental precautions

No specific requirements.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature

No data available.

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

OEL

orthophosphorsyre (EH40, 2005)

Long-term exposure limit (8-hour TWA reference period): - ppm | 1 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | 2 mg/m³

DNEL / PNEC

DNEL (orthophosphorsyre): 2,92 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

DNEL (orthophosphorsyre): 0,73 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - General population

8.2. Exposure controls

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

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

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

Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be

washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

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

Individual protection measures, such as personal protective equipment



Generally

Use only CE marked protective equipment.

Respiratory Equipment

Recommended: S/SL. P2 . White

Skin protection

Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.

Hand protection

Recommended: Nitrile rubber. See the manufacturer's instructions.

Eye protection

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Colourless
Odour	Characteristic
pH	1
Viscosity (40°C)	No data available.
Density (g/cm ³)	0,98

Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.

Data on fire and explosion hazards

Flashpoint (°C)	No data available.
Ignition (°C)	No data available.
Self-ignition (°C)	No data available.
Explosion limits (Vol %)	No data available.

Solubility

Solubility in water	Soluble
n-octanol/water coefficient	No data available.

9.2. Other information

Solubility in fat (g/L)	No data available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance	Species	Test	Route of exposure	Result
CMIT/MIT	Rat	LC50	Inhalation	> 4,62 mg/1/4h
CMIT/MIT	Rabbit	LD50	Dermal	600 mg/kg
CMIT/MIT	Rat	LC50	Oral	457 mg/kg
2-phosphonobutan-1,2,4-tricarb...	Rat	LD50	Oral	> 6500 mg/kg
2-phosphonobutan-1,2,4-tricarb...	Rat	LD50	Dermal	> 4000 mg/kg
2-phosphonobutan-1,2,4-tricarb...	Rat	LD50	Oral	> 500 - 2000 mg/kg
Fedtalkoholethoxylat	Rat	LD50	Dermal	> 4000 mg/kg
Fedtalkoholethoxylat	Rabbit	LD50	Oral	> 6730 mg/kg
citronsyre	Mouse	LD50	Oral	> 7000 mg/kg
citronsyre	Rat	LD50	Oral	5400 mg/kg
citronsyre	Rabbit	LD50	Oral	1530 mg/kg
orthophosphorsyre	Rat	LD50	Dermal	2740 mg/kg
orthophosphorsyre	Rat	LD50	Inhalation	> 840 mg/m ³ /1 h
orthophosphorsyre	Rat	LD50	Inhalation	5,56 g/kg
2-(2-butoxyethoxy)ethanol				

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Data on substance: orthophosphorsyre

Test: no guideline followed

Result: Ætser huden

Serious eye damage/irritation

Causes serious eye damage.

Data on substance: orthophosphorsyre

Test: no guideline followed

Result: Ætsende stoffer forårsager skader på øjne.

Respiratory or skin sensitisation

This product contains substances that may trigger an allergic reaction to predisposed persons.

Germ cell mutagenicity

Data on substance: Fedtalkoholethoxylat

No adverse effect observed.

Carcinogenicity

Data on substance: Fedtalkoholethoxylat

No adverse effect observed.

Reproductive toxicity

Data on substance: Fedtalkoholethoxylat

No adverse effect observed.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Long term effects

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.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Species	Test	Duration	Result
CMIT/MIT	Fish	LC50	96 h	0,19 mg/L

CMIT/MIT	Daphnia	EC50	48 h	0,028 mg/L
CMIT/MIT	Algae	EC50	72 h	0,018 mg/L
2-phosphonobutan-1,2,4-tricarb...	Fish	EC0	-	> 1000 mg/L
2-phosphonobutan-1,2,4-tricarb...	Daphnia	EC0	24 h	> 300 mg/L
2-phosphonobutan-1,2,4-tricarb...	Algae	EC0	72 h	1300 mg/L
2-phosphonobutan-1,2,4-tricarb...	Fish	LC50	96 h	10 - 100 mg/L
2-phosphonobutan-1,2,4-tricarb...	Daphnia	EC50	48 h	10 - 100 mg/L
2-phosphonobutan-1,2,4-tricarb...	Algae	EC50	72 h	10 - 100 mg/L
Fedtalkoholethoxylat	Daphnia	EC0	-	80 mg/L
Fedtalkoholethoxylat	Fish	EC0	-	625 mg/L
Fedtalkoholethoxylat	Algae	EC0	-	640 mg/L
citronsyre	Fish	LC50	96 h	138 ppm
citronsyre	Fish	EC50	48 h	> 100 mg/L
citronsyre	Algae	EC50	72 h	> 100 mg/L
orthophosphorsyre	Fish	LC50	96 h	2500 mg/L
orthophosphorsyre	Daphnia	EC50	48 h	> 1000 mg/L
2-(2-butoxyethoxy)ethanol				
2-(2-butoxyethoxy)ethanol				

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Fedtalkoholethoxylat	Yes	No data available	No data available
orthophosphorsyre	Yes	No data available	No data available

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
Fedtalkoholethoxylat	No	No data available	No data available
orthophosphorsyre	No	No data available	No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms. This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

Waste

EWC code

20 01 29*

detergents containing dangerous substances

Specific labelling

-

Contaminated packing

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

SECTION 14: Transport information

14.1 – 14.4

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

ADR/RID

14.1. UN number	1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S.
14.3. Transport hazard class(es)	8
14.4. Packing group	III
Notes	-
Tunnel restriction code	E

IMDG

UN-no.	1760
Proper Shipping Name	CORROSIVE LIQUID, N.O.S. (Phosphoric Acid)

According to EC-Regulation 2015/830

Class	8
PG*	III
EmS	F-A, S-B
MP**	No
Hazardous constituent	-

IATA/CAO

UN-no.	1760
Proper Shipping Name	CORROSIVE LIQUID, N.O.S. (Phosphoric Acid)
Class	8
PG*	III

14.5. Environmental hazards

-

14.6. Special precautions for user

-

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

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Demands for specific education

-

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

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

EC regulation 1907/2006 (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.

H301 - Toxic if swallowed.

H302 - Harmful if swallowed.

H311 - Toxic in contact with skin.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

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Other symbols mentioned in section 2

-

Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

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

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

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.

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

The safety data sheet is validated by

MH

**Date of last essential change
(First cipher in SDS version)**

2016-10-14

**Date of last minor change
(Last cipher in SDS version)**

2016-10-14