SAFETY DATA SHEET

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

1.1. Product identifier

Trade name
Profi Kalkfjerner ekstra
Product no.
86
REACH registration number
Not applicable
Unique formula identifier (UFI)
-

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

Relevant identified uses of the substance or mixture
Decalcifier and rustremover
Washing and Cleaning Products (including solvent based products) (PC35)
Professional uses: Public domain (administration, education, entertainment, services, craftsmen) (SU 22)
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
Clean Supply A/S
Fabriksparken 10 A,
DK – 2600 Glostrup, Danmark
Tlf: 43434455, Fax: 43434465, mail@clean-supply.dk
www.clean-supply.dk
Contact person
Mette Borg
E-mail
mb@iduna.dk
SDS date
2018-11-20
SDS Version
1.0

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. 1A; 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)

Precautionary statements

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 [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).
Storage	-
Disposal	Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

ortho phpsphoric acid, Hydrochloric acid

2.3. Other hazards

Not applicable

Additional labelling

Not applicable

Additional warnings

Not applicable

VOC (volatile organic compound)

Not applicable

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	ortho phpsphoric acid
IDENTIFICATION NOS.:	CAS-no: 7664-38-2 EC-no: 231-633-2 Index-no: 015-011-00-6
CONTENT:	10 - <15%
CLP CLASSIFICATION:	Skin Corr. 1B H314
NOTE:	L

NAME:	Hydrochloric acid
IDENTIFICATION NOS.:	-
CONTENT:	5 - <10%
CLP CLASSIFICATION:	STOT SE 3, Skin. Corr. 1A H314, H335

NAME:	ethanol ethyl alcohol
IDENTIFICATION NOS.:	CAS-no: 64-17-5 EC-no: 200-578-6 REACH-no: 01-2119467610-43-xxxx Index-no: 603-002-00-5
CONTENT:	1 - <2.5%
CLP CLASSIFICATION:	Flam. Liq. 2, Eye Irrit. 2 H225, H319
NOTE:	S

NAME:	Polymer
IDENTIFICATION NOS.:	CAS-no: 196823-11-7
CONTENT:	1 - <2.5%
CLP CLASSIFICATION:	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.
S = Organic solvent

Other information

Eye Cat. 1 Sum = Sum(Ci/S(G)CLi) = 2,6464 - 3,9696
Skin Corr. 1A Sum = Sum(Ci/S(G)CLi) = 1,35728 - 2,03592

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 0344 892 0111 (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 person into fresh air and stay with him/her.

Skin contact
Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water.

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
In the case of ingestion, contact a doctor immediately and bring the safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning 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.
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
IF exposed or concerned: Get immediate medical advice/attention.

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

> 0 °C

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

ethanol ethyl alcohol
Long-term exposure limit (8-hour TWA reference period): 1000 ppm | 1920 mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

ortho phpsphoric acid
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 (ethanol ethyl alcohol): 950 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (ethanol ethyl alcohol): 1900 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers

DNEL (ethanol ethyl alcohol): 343 mg/kg/bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Hydrochloric acid): 8 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers

DNEL (Hydrochloric acid): 15 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers

DNEL (ortho phpsphoric acid): 2,92 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers

PNEC (ethanol ethyl alcohol): 0,96mg/l
Exposure: Freshwater

PNEC (ethanol ethyl alcohol): 0,79 mg/l
Exposure: Marine water

PNEC (ethanol ethyl alcohol): 2,75 mg/l
Exposure: Intermittent release

PNEC (ethanol ethyl alcohol): 580 mg/l
Exposure: Sewage Treatment Plant

PNEC (ethanol ethyl alcohol): 3,6 mg/kg dw
Exposure: Freshwater sediment

PNEC (ethanol ethyl alcohol): 2,9 mg/kg dw
Exposure: Marine water sediment

PNEC (ethanol ethyl alcohol): 0,63 mg/kg
Exposure: Soil

PNEC (Hydrochloric acid): 0,036 mg/l
Exposure: Sewage Treatment Plant

PNEC (Hydrochloric acid): 0,036 mg/l
Exposure: Marine water

PNEC (Hydrochloric acid): 0,036 mg/l
Exposure: Freshwater

8.2. Exposure controls

Compliance with the accepted 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 containment 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

No specific requirements.

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

Household gloves
Breakthrough time: 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	Red
Odour	Sour
Odour threshold (ppm)	No data available.
pH	0,4
Viscosity (40°C)	No data available.
Density (g/cm³)	1,11

Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

Data on fire and explosion hazards

Flash point (°C)	No data available.
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	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.

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

Nothing 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: Polymer
Species: Rat
Test: LD50
Route of exposure: Oral
Result: >2000 mg/kg

Substance: ethanol ethyl alcohol
Species: Rabbit
Test: LD lo
Route of exposure: Dermal
Result: 20 gram/kg

Substance: ethanol ethyl alcohol
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: 2000 ppm 10H

Substance: ethanol ethyl alcohol
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 7060 mg/kg

Substance: Hydrochloric acid
Species: Rabbit
Test: LD50

Route of exposure: Dermal
Result: 5010 mg/kg

Substance: Hydrochloric acid
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: 8,3 mg/l

Substance: Hydrochloric acid
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 273 mg/kg

Substance: ortho phpsphoric acid
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: 2,740 mg/kg

Substance: ortho phpsphoric acid
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: 1,69 mg/l

Substance: ortho phpsphoric acid
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 2600 mg/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

Data on substance: ortho phpsphoric acid
Organism: Rat
Result: >=500 mg/kg
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: Polymer
Species: Fish
Test: LC50
Duration: 96h

Result: 1-10 mg/l

Substance: Polymer
Species: Daphnia
Test: EC50
Duration: 48h
Result: 1-10 mg/l

Substance: Hydrochloric acid
Species: Fish
Test: LC50
Duration: 96h
Result: 20,5 mg/l

Substance: Hydrochloric acid
Species: Algae
Test: EC50
Duration: 72h
Result: 0,73 mg/l

Substance: Hydrochloric acid
Species: Daphnia
Test: EC50
Duration: 48h
Result: 0,45 mg/l

Substance: ortho phpsphoric acid
Species: Fish
Test: LC50
Duration: 96h
Result: 138 mg/l

Substance: ortho phpsphoric acid
Species: Fish
Test: NOEC
Duration: 72h
Result: 100 mg/l

Substance: ortho phpsphoric acid
Species: Daphnia
Test: EC50
Duration: 48h
Result: 100 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Polymer	Yes	Modified OECD Screening Test	>=90%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF

No data available.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Nothing special

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

Waste

EWC code

20 01 14 acids

Specific labelling

Not applicable

Contaminated packing

Contaminated packaging 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	3264
14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	8
14.4. Packing group	III
Notes	-
Tunnel restriction code	-

IMDG

UN-no.	3264
Proper Shipping Name	Corrosive acetic inorganic liquid n.o.s. (phosphoric and hydrochloric acid)
Class	8
PG*	III
EmS	-
MP**	-
Hazardous constituent	-

IATA/ICAO

UN-no.	3264
Proper Shipping Name	Corrosive acetic inorganic liquid n.o.s. (phosphoric and hydrochloric 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

Not applicable

Seveso

-

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 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

H225 - Highly flammable liquid and vapour.
H314 - Causes severe skin burns and eye damage.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

The full text of identified uses as mentioned in section 1

PC35 = Washing and Cleaning Products (including solvent based products)
SU 22 = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Additional label elements

Not applicable

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)
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

kb

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

-

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

-