

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name**

Decalcifier

**Product no.**

67

**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**

Highly effective non-foaming decalcifier

Washing and Cleaning Products (including solvent based products) (PC35)

Use in closed process, no likelihood of exposure (PROC 1)

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**

Frontmatec Smørum A/S

Hassellunden 9

2765 Smørum

Denmark

Phone: +45 445 037 00 • E-mail: smoerum@frontmatec.com

**Contact person**

Mette Borg

**E-mail**

mb@iduna.dk

**SDS date**

2018-04-23

**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

Not classified according to Regulation (EC) No. 1272/2008 (CLP)

### 2.2. Label elements

**Hazard pictogram(s)**

Not applicable

**Signal word**

-

### ▼ Hazard statement(s)

Not applicable-

**Safety statement(s)**

General -

Prevention -

Response -

Storage -

Disposal -

### ▼ Identity of the substances primarily responsible for the major health hazards

Not applicable

▼ **2.3. Other hazards**

Not applicable

▼ **Additional labelling**

Safety data sheet available on request. (EUH210)

▼ **Additional warnings**

Not applicable

**VOC**

Not applicable

## SECTION 3: Composition/information on ingredients

▼ **3.1/3.2. Substances/Mixtures**

NAME: Water  
IDENTIFICATION NOS.: CAS-no: 7732-18-5  
CONTENT: 80-95%  
CLP CLASSIFICATION: NA

NAME: ortho phpsphoric acid  
IDENTIFICATION NOS.: CAS-no: 7664-38-2 EC-no: 231-633-2 Index-no: 015-011-00-6  
CONTENT: 5 - <10%  
CLP CLASSIFICATION: Skin Corr. 1B  
H314  
NOTE: L

NAME: (+)-tartaric acid  
IDENTIFICATION NOS.: CAS-no: 87-69-4 EC-no: 201-766-0 REACH-no: 02-2119676676-20-0000  
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.  
L = European occupational exposure limit.

**Other information**

Eye Cat. 2 Sum =  $\text{Sum}(\text{Ci}/\text{S}(\text{G})\text{CLi}) = 0,64 - 0,96$   
Skin Cat. 2 Sum =  $\text{Sum}(\text{Ci}/\text{S}(\text{G})\text{CLi}) = 0,48 - 0,72$

## 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 person into fresh air and stay with him/her.

▼ **Skin contact**

Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

▼ **Eye contact**

Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

▼ **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**

Nothing special

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

Nothing 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

No specific requirements.

## SECTION 6: Accidental release measures

### ▼ 6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

### ▼ 6.2. Environmental precautions

NOT USED

### ▼ 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

See section on 'Exposure controls/personal protection' for information on personal protection.

### ▼ 7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container.

#### ▼ 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

ortho phpsphoric acid

Long-term exposure limit (8-hour TWA reference period): - ppm | 1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | 2 mg/m<sup>3</sup>

#### ▼ DNEL / PNEC

DNEL (ortho phpsphoric acid): 2,92 mg/m<sup>3</sup>

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

### 8.2. Exposure controls

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

#### General recommendations

▼ Smoking, eating and drinking are not allowed in the work premises

#### 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**

NOT USED

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

▼ Not applicable

▼ **Generally**

Use only CE marked protective equipment.

▼ **Respiratory Equipment**

No specific requirements.

▼ **Skin protection**

No specific requirements.

▼ **Hand protection**

No specific requirements.

▼ **Eye protection**

No specific requirements.

**SECTION 9: Physical and chemical properties**

▼ **9.1. Information on basic physical and chemical properties**

Form	Liquid
Colour	Colourless
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	2,1
Viscosity (40°C)	No data available.
Density (g/cm <sup>3</sup> )	1,05

▼ **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.
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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**

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: (+)-tartaric acid  
Species: Rat  
Test: LD50  
Route of exposure: Oral  
Result: 3200 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

No data available.

##### Serious eye damage/irritation

No data available.

##### 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:  $\geq 500$  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

Nothing special

### SECTION 12: Ecological information

#### ▼ 12.1. Toxicity

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
No data available.			

**12.3. Bioaccumulative potential**

Substance	Potential bioaccumulation	LogPow	BCF
No data available.			

▼ **12.4. Mobility in soil**

(+)-tartaric acid: Log Koc= 0,268456, Calculated from LogPow (High mobility potential.).

▼ **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 not covered by regulations on dangerous waste.

**Waste**

EWC code

200114

**Specific labelling**

-

▼ **Contaminated packing**

No specific requirements.

**SECTION 14: Transport information**

**14.1 – 14.4**

Not dangerous goods according to ADR, IATA and IMDG.

▼ **ADR/RID**

14.1. UN number	-
14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	-
14.4. Packing group	-
Notes	-
Tunnel restriction code	-

▼ **IMDG**

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-
EmS	-
MP**	-
Hazardous constituent	-

▼ **IATA/ICAO**

UN-no.	-
Proper Shipping Name	-
Class	-
PG*	-

**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

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

##### Demands for specific education

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##### Additional information

Not applicable

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##### Sources

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

H314 - Causes severe skin burns and eye damage.

H319 - Causes serious eye irritation.

##### The full text of identified uses as mentioned in section 1

PC35 = Washing and Cleaning Products (including solvent based products)

PROC 1 = Use in closed process, no likelihood of exposure

SU 22 = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

##### Additional label elements

Not applicable

##### Other

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)

2015-05-13

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

2015-05-13