SAFETY DATA SHEET

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

1.1. Product identifier

Trade name
Maskinafkalke
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
Iduna A/S
Blokken 25
DK - 3460 Birkerød
Tlf.: 0045 45 81 80 66
mail: iduna@iduna.dk

Contact person
Mette Borg

E-mail
mb@iduna.dk

SDS date
2021-01-25

SDS Version
4.1

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

Precautionary statements
General
-
Prevention
-
Response
-
Storage
-
Disposal
-

Identity of the substances primarily responsible for the major health hazards
According to EC-Regulation 2015/830

**Additional labelling**
- Safety data sheet available on request. (EUH210)

**Unique formula identifier (UFI)**
- 

**2.3. Other hazards**
- 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 phosphoric acid |
| IDENTITY NOS.: | CAS-no: 7664-38-2 EC-no: 231-633-2 REACH-no: 01-2119485924-24-xxxx Index-no: 015-011-00-6 |
| CONTENT: | 5 - <10% |
| CLP CLASSIFICATION: | Skin Corr. 1B H314 |

**NAME:** (+)-tartaric acid

| IDENTITY 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 = \( \text{Sum}(C_i/S(G)CL_i) = 0.64 - 0.96 \)
- Skin Cat. 2 Sum = \( \text{Sum}(C_i/S(G)CL_i) = 0.48 - 0.72 \)

### 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 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**
Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with soap and water.

**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**
According to EC-Regulation 2015/830

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
   No specific requirements.

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
   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 phosphoric 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 (ortho phosphoric acid): 2.92 mg/m³
   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
According to EC-Regulation 2015/830

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**
No specific requirements.

**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.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>Colourless</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Characteristic</td>
</tr>
<tr>
<td><strong>Odour threshold (ppm)</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>2.1</td>
</tr>
<tr>
<td><strong>Viscosity (40°C)</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Density (g/cm³)</strong></td>
<td>1.05</td>
</tr>
<tr>
<td><strong>Phase changes</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Melting point (°C)</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Boiling point (°C)</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Decomposition temperature (°C)</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Evaporation rate (n-butylacetate = 100)</strong></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

**Data on fire and explosion hazards**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash point (°C)</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Ignition (°C)</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Auto flammability (°C)</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Explosion limits (% v/v)</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

**Solubility**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Solubility in water</strong></td>
<td>Soluble</td>
</tr>
<tr>
<td><strong>n-octanol/water coefficient</strong></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Solubility in fat (g/L)</strong></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

---

### 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
Nothing special

#### 10.5. Incompatible materials
According to EC-Regulation 2015/830

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 phpspheric acid
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 2600 mg/kg

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

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

Skin corrosion/irritation
Data on substance: ortho phpspheric acid
Test: OECD Guideline 404
Organism: Rabbit
Result: ætsende

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 phpspheric 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
Nothing special

SECTION 12: Ecological information

12.1. Toxicity
Substance: ortho phpspheric acid
Species: Fish
Test: LC50
Duration: 96h
Result: 138 mg/l

Substance: ortho phpspheric acid
According to EC-Regulation 2015/830

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Biodegradability</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Potential bioaccumulation</th>
<th>LogPow</th>
<th>BCF</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
Not applicable

Contaminated packing
No specific requirements.

SECTION 14: Transport information

14.1 – 14.4
Not dangerous goods according to ADR, IATA and IMDG.

ADR/RID

<table>
<thead>
<tr>
<th>14.1. UN number</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name</td>
<td>-</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>-</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>-</td>
</tr>
<tr>
<td>Notes</td>
<td>-</td>
</tr>
<tr>
<td>Tunnel restriction code</td>
<td>-</td>
</tr>
</tbody>
</table>

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
-
According to EC Regulation 2015/830

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
   -

   Demands for specific education
   -

   Additional information
   Not applicable

   Seveso
   -

   Biocidal reg. no.
   Not applicable

   Sources

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
mb
Date of last essential change
(First cipher in SDS version)
   2019-04-03(4.0)
Date of last minor change
(Last cipher in SDS version)
   2019-04-03