SAFETY DATA SHEET

In accordance with 1907/2006 annex II 2015/830 and 1272/2008
(All references to EU regulations and directives are abbreviated into only the numeric term)

Issued 2018-01-15
Replaces issued SDS 2016-01-14
Version number 3.0

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

1.1. Product identifier
Trade name Specialfett P34

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

1.3. Details of the supplier of the safety data sheet
Company Corema Svetsekonomi AB
Box 237
433 24 Partille
Sweden

Contact person Staffan Johannisson
Telephone 031-3363682
E-mail info@corema.se

1.4. Emergency telephone number
Acute cases: Call 112, request poison information.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Skin Irritant (Category 2), H315
Irritates eyes (Category 2), H319
Harmful to aquatic life with long-lasting effects (Category Chronic 3), H412

2.2. Label elements
Hazard pictogram

Signal word Warning
Hazard statements
H315 Causes skin irritation
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

Precautionary statements
P273 Avoid release to the environment
P332+P313 If skin irritation occurs: Get medical advice/attention
P337+P313 If eye irritation persists: Get medical advice/attention
P501 Dispose of contents and container to authorised waste disposal facility

2.3. Other hazards
Not indicated.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMINES, N-TALLOW ALKYLTRIMETHYLENEDI-, DIOLEATES</td>
<td>Skin Corr 1B, Aquatic Acute 1; H314, H400</td>
<td>0.25 - 2.5 %</td>
</tr>
</tbody>
</table>
EC No: 268-902-9
ZINC OXIDE
CAS No: 1314-13-2
EC No: 215-222-5
Index No: 030-013-00-7
REACH: 01-2119463881-32
Aquatic Acute 1, Aquatic Chronic 1; M = 1; H400, H410
<2.5 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

SECTION 4: First aid measures

4.1. Description of first aid measures
Upon breathing in
Allow the injured person to rest in a warm place with fresh air, if symptoms persist seek medical attention.

Upon eye contact
Remove solid particles.
Remove contact lenses immediately if possible.
Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor/ophthalmologist.

Upon skin contact
Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.
Remove contaminated clothes.

Upon ingestion
Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

4.2. Most important symptoms and effects, both acute and delayed
Upon eye contact
Serious eye irritation may occur.

Upon skin contact
Skin irritation may occur.

Upon ingestion
Ingestion may cause discomfort or reduced general condition.

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

SECTION 5: Fire-fighting measures

5.1. Extinguishing media
Recommended extinguishing agents
Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

Unsuitable extinguishing agents
May not be extinguished with water dispersed under high pressure.

5.2. Special hazards arising from the substance or mixture
Note, risk for discharge of environmentally harmful substances.
Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.

5.3. Advice for fire-fighters
Protective measures should be taken regarding other material at the site of the fire.
In case of fire use a respirator mask.
Wear full protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).
Avoid inhalation and exposure to skin and eyes.
Keep unauthorized and unprotected people at a safe distance.
Use recommended safety equipment, see section 8.
Use a chemical protection suit when cleaning up large spills.

6.2. Environmental precautions
Avoid emissions into soil, water or air.
Avoid discharge into sewers.
6.3. Methods and material for containment and cleaning up
To be collected with caution and transported to a waste disposal facility.
Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority vaccination works. Present this safety data sheet.
Wash off with large quantities of water (50-100 volume parts). Dry up afterwards.

6.4. Reference to other sections
See section 8 and 13 for personal protection equipment and disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid spillage, inhalation and contact with eyes and skin.
Store this product separately from food items and keep it out of the reach of children and pets.
Do not eat, drink or smoke in premises where this product is handled.
Wash your hands after using the product.
Remove clothes which have been splattered.
Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
This product should be stored well out of reach of young children and kept safely apart from products intended for consumption.
The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.
Do not store above normal room temperature.
Store tightly, in original packaging.

7.3. Specific end uses
See identified uses in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
8.1.1. National limit values
All ingredients (cf. Section 3) lack occupational exposure limit values.

<table>
<thead>
<tr>
<th>Type of exposure</th>
<th>Route of exposure</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumer</td>
<td>Chronic</td>
<td>Inhalation</td>
</tr>
<tr>
<td>Worker</td>
<td>Chronic</td>
<td>Dermal</td>
</tr>
<tr>
<td>Worker</td>
<td>Chronic</td>
<td>Inhalation</td>
</tr>
<tr>
<td>Consumer</td>
<td>Chronic</td>
<td>Oral</td>
</tr>
<tr>
<td>Consumer</td>
<td>Chronic</td>
<td>Dermal</td>
</tr>
</tbody>
</table>

8.1.2. PNEC values

<table>
<thead>
<tr>
<th>Environmental protection target</th>
<th>PNEC value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh water</td>
<td>20.6 µg/L</td>
</tr>
<tr>
<td>Freshwater sediments</td>
<td>117.8 mg/kg dw</td>
</tr>
<tr>
<td>Marine water</td>
<td>6.1 µg/L</td>
</tr>
<tr>
<td>Marine sediments</td>
<td>56.5 mg/kg dw</td>
</tr>
<tr>
<td>Microorganisms in sewage treatment</td>
<td>100 µg/L</td>
</tr>
<tr>
<td>Soil (agricultural)</td>
<td>35.6 mg/kg dw</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
In terms of minimizing risks, attention must be paid to the health hazards (see Sections 2, 3 and 10) of this product or any of its ingredients according to EU directives 89/391 and 98/24 and national occupational legislation.

8.2.1. Appropriate engineering controls
Handle in premises with good ventilation.
Use local exhaust ventilation.
Eye-rinsing facilities shall be available at the workplace.
Eye/face protection
Use protective glasses, safety goggles, or a visor.

Skin protection
Use suitable protective clothing.
Use suitable protective gloves.

Respiratory protection
Use proper protective breathing equipment in case of insufficient ventilation.
A breathing mask of the A filter (brown) type, or a IIb (P2) dust filter may be required.

8.2.3. Environmental exposure controls
For limitation of environmental exposure, see Section 12.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| b) Odour | Not indicated |
| c) Odour threshold | Not indicated |
| d) pH | Not indicated |
| e) Melting point/freezing point | Not indicated |
| f) Initial boiling point and boiling range | Not indicated |
| g) Flash point | Not indicated |
| h) Evaporation rate | Not indicated |
| i) Flammability (solid, gas) | Not applicable |
| j) Upper/lower flammability or explosive limits | Not indicated |
| k) Vapour pressure | Not indicated |
| l) Vapour density | Not indicated |
| m) Relative density | 1.180 kg/L |
| n) Solubility | Solubility in water: Insoluble(<0.001%) |
| o) Partition coefficient: n-octanol/water | Not applicable |
| p) Auto-ignition temperature | Not indicated |
| q) Decomposition temperature | Not indicated |
| r) Viscosity | Not indicated |
| s) Explosive properties | Not applicable |
| t) Oxidising properties | Not applicable |

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product contains no substances which can lead to hazardous reactions at normal use.

10.2. Chemical stability
The product is stable at normal storage and handling conditions.

10.3. Possibility of hazardous reactions
No hazardous reactions known during normal use.

10.4. Conditions to avoid
No data available.

10.5. Incompatible materials
Avoid contact with oxidizers.
Avoid contact with acids.

10.6. Hazardous decomposition products
None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Not indicated.

Acute toxicity
The product is not classified as acute toxic.

ZINC OXIDE
LD50 rat 24h: > 2000 mg/kg Dermally
LC50 rat 4h: > 5.7 mg/L Inhalation
LD50 rat 24h: > 5000 mg/kg Orally
Skin corrosion/irritation
Irritant to skin.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory or skin sensitisation
The product is not classified as sensitising.

Germ cell mutagenicity
No mutagenic effects have been reported for the substance in this mixture.

Carcinogenicity
No carcinogenic effects have been reported for the substances in this product.

Reproductive toxicity
No toxic effects to reproduction have been reported for the substances in this mixture.

STOT-single exposure
No known hazards for occasional exposure.

STOT-repeated exposure
No known hazards for repeated exposure.

Aspiration hazard
The product is not classified as being toxic for aspiration.

SECTION 12: Ecological information

12.1. Toxicity
Prevent release on land, in water and drains.
Avoid all emissions into the natural surrounding environment.
Harmful to aquatic life with long lasting effects.

ZINC OXIDE
LC50 Rainbow trout (Oncorhynchus mykiss) 96h: 1.1 mg/L
LC50 Freshwater water flea (Daphnia magna) 48h: 1.7 mg/L
EC50 Algae 72 h: 0.14 mg/L
NOEC Algae 72h: 0.024 mg/L
NOEC Fish 96h: 0.53 mg/L

12.2. Persistence and degradability
No information about persistence or degradability exists but there is no reason to suppose that the product is persistent.

12.3. Bioaccumulative potential
No information exists on bioaccumulation, but there is no cause for concern in respect of this.

12.4. Mobility in soil
The product is not soluble in water.

12.5. Results of PBT and vPvB assessment
No chemical safety report has been executed.

12.6. Other adverse effects
Not indicated.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste handling of the product
Avoid discharge into sewers.
The product is hazardous to the environment and the waste thereof should be considered hazardous material (if this is not treated so that this risk be eliminated).
This product is suited for recycling; Contact the distributor for information.
Final disposal of this product should be carried out after converting it into substances which are less hazardous to the environment.
Also take local regulations for dealing with waste into account.
See also national waste regulations.

Classification according to 2006/12
Recommended LoW-code: 07 06 04 Other organicsolvents, washing liquids and mother liquors

SECTION 14: Transport information
Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway),
ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

14.1. UN number
Not classified as dangerous goods
14.2. UN proper shipping name
Not applicable

14.3. Transport hazard class(es)
Not applicable

14.4. Packing group
Not applicable

14.5. Environmental hazards
Not applicable

14.6. Special precautions for user
Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable

14.8 Other transport information
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Not indicated

15.2. Chemical safety assessment
Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16: Other information

16a. Indication of where changes have been made to the previous version of the safety data sheet
Revisions of this document
Earlier versions
2016-01-14 Changes in section(s) 4, 5, 6, 7, 8, 10, 11, 12, 13.

16b. Legend to abbreviations and acronyms used in the safety data sheet
Full texts for Hazard Class and Category Code mentioned in section 3
Skin Corr 1B Corrosive (Category 1B)
Aquatic Acute 1 Very toxic to aquatic life (Category Acute 1)
Aquatic Chronic 1; M = I Very toxic to aquatic life with long lasting effects to aquatic environments (Category Chronic 1)

Explanations of the abbreviations in Section 14
ADR European Agreement concerning the International Transport of Dangerous Goods by Road
RID Regulations concerning the International Transport of Dangerous Goods by Rail
IMDG International Maritime Dangerous Goods Code
ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA The International Air Transport Association

16c. Key literature references and sources for data
Sources for data
Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2018-01-15.
Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet
16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

16e. List of relevant hazard statements and/or precautionary statements

Full texts for hazard statements mentioned in section 3

- **H314** Causes severe skin burns and eye damage
- **H400** Very toxic to aquatic life
- **H410** Very toxic to aquatic life with long lasting effects

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

**Warning for misuse**

This product can cause injuries if not used properly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with its intended use.

**Other relevant information**

**Editorial information**

This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, [www.kemrisk.se](http://www.kemrisk.se)