

1 Identification of the substance/preparation and of the company/undertaking

- **Product name:** **RME (RAPESEED METHYL ESTER)**
- **Application of the substance / the preparation** Biodiesel
- **Manufacturer/Supplier:**
Perstorp Oxo AB
SE-444 84 Stenungsund
Sweden
Tel. +46 303 728600
www.perstorp.com
- **Further information obtainable from:** Product safety department.
- **Information in case of emergency:** (Int.) +46 8 337043 (Emergency Response Center, Sweden)

2 Hazards identification

- **Hazard description:** Not classified.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Chemical components:**

| | | |
|---------------------|--|------|
| · CAS: 67762-38-3 | Fatty acids, C16-18 and C18-unsaturated, methyl esters | 100% |
| · EINECS: 267-015-4 | | |

4 First-aid measures

- **General information:** Remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye under running water.
- **After swallowing:**
Do not induce vomiting!
If a large quantity has been ingested, get medical attention.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

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- **Additional information:** Inform authorities in case of large spillage.

7 Handling and storage

- **Information for safe handling:**
Store in cool, dry place in tightly closed receptacles.
Handling and storage at temperatures above - 15 °C.
- **Information about fire - and explosion protection:** Protect from heat.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store away from oxidizing agents.

8 Exposure controls/personal protection

- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:**
Use suitable respiratory protective device only when aerosol or mist is formed.
Filter A/P2
- **Protection of hands:**



Protective gloves

- **Material of gloves**
Nitrile rubber, NBR
Fluorocarbon rubber (Viton)
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· General Information

| | |
|----------------|--------|
| Form: | Liquid |
| Colour: | Green |
| Odour: | Mild |

· Change in condition

| | |
|-------------------------------------|------------|
| Melting point/Melting range: | < - 15 °C |
| Boiling point/Boiling range: | 280-350 °C |

| | |
|---------------------|--------|
| Flash point: | 140 °C |
|---------------------|--------|

| | |
|-----------------------------|---|
| Danger of explosion: | Product does not present an explosion hazard. |
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- | | |
|---|-----------------------------------|
| · Density at 15 °C: | 880 kg/m ³ |
| · Solubility in / Miscibility with water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/water): | Undetermined. |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions** Reacts with oxidizing agents.
- **Dangerous decomposition products:**
Carbon monoxide and carbon dioxide
Irritant gases/vapours

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

67762-38-3 Fatty acids, C16-18 and C18-unsaturated, methyl esters

Oral | LD50 | 17400 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** Slightly irritating.
- **on the eye:** Mist or splashes cause eye irritation.
- **Inhalation:** May be irritating.
- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information

- **Information about elimination (persistence and degradability):**

67762-38-3 Fatty acids, C16-18 and C18-unsaturated, methyl esters

BOD28 | 84-89 % (ISO 7828-1984 E)

- **Other information:** The product is readily biodegradable.
- **Behaviour in environmental systems:**
- **Mobility and bioaccumulation potential:** Low potential for accumulation in organisms
- **Ecotoxicological effects:**

- **Aquatic toxicity:**

67762-38-3 Fatty acids, C16-18 and C18-unsaturated, methyl esters

LC50 | > 1000 mg/l (fish)

- **Remark:** Not acutely toxic.

- **General notes:**

Water hazard class 1 (German Regulation): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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13 Disposal considerations

- **European waste catalogue**

| | |
|----------|--|
| 07 00 00 | WASTES FROM ORGANIC CHEMICAL PROCESSES |
|----------|--|

| | |
|----------|--|
| 07 01 00 | wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals |
|----------|--|

| | |
|----------|--------------------------------|
| 07 01 99 | wastes not otherwise specified |
|----------|--------------------------------|

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** -

- **Maritime transport IMDG:**

- **IMDG Class:** -

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous goods according to the above specifications.

15 Regulatory information

- **Labelling according to EU guidelines:**

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials.

Observe the general safety regulations when handling chemicals.

16 Other information

This Safety Data Sheet is not a Product Specification. It is based on our present knowledge and experience and it is intended to serve as a guide for safe handling of the product regarding to health and environmental aspects.

- **Department issuing SDS:** EHSQ-department, Perstorp Specialty Chemicals AB.