

MATERIAL SAFETY DATA SHEET**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier**
Trade name
EKO 100 Muottiöljy E
REACH registration number
-
- 1.2 Relevant identified uses**
Form oil.
- 1.2.1 Classification of economic activities**
D. Industry
- 1.2.2 Use category**
35. Lubricants and additives
- 1.2.3 The chemical may be used by the general public X**
- 1.3 Details of the supplier of the safety data sheet**
- 1.3.1 Manufacturer, importer, other operator**
Ekosata Oy,
Oppipojankatu 1,
32200 LOIMAA,
tel: 044-0605461,
Business ID: 2290997-9
- 1.4 Emergency telephone number**
- 1.4.1 Number, name and address**
09 471 977, (09-4711 exchange)
Poison Information Centre, Haartmaninkatu 4, 00290 HELSINKI

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
The preparation has not been classified as hazardous.
- 2.2 Label elements**
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- 2.3 Other hazards**
The preparation does not contain PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative) substances.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

CAS/EC number and registry number	Name of ingredient	Concentration	Classification
-	-	-	-

The product contains 100% vegetable oil ester.

4. FIRST AID MEASURES

- 4.1 Description of first aid measures**
Inhalation: Remove to fresh air.
Eye contact: Rinse opened eye with plenty of running water for 10 to 15 minutes.
Skin contact: Remove contaminated clothing and wash skin with soap and water.

Ingestion: Rinse mouth with water. Seek medical attention. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

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4.3 Indication of any immediate medical attention and special treatment needed

Treat symptoms

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: Smothering, dry powder, carbon dioxide (CO₂).

Unsuitable extinguishing agents: Water

5.2 Special hazards arising from the substance or mixture

No special hazards.

5.3 Advice for firefighters

Appropriate. Wear self-contained breathing apparatus in closed premises.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective clothing. Beware of possible risk of slipping caused by product leaking.

6.2 Environmental precautions

Do not allow to enter drainage system, soil or water systems.

6.3 Methods and material for containment and cleaning up

Absorb spill with peat, sawdust, paper towel, etc. Dispose of appropriately.

6.4 Reference to other sections

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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use safety footwear when handling barrels.

7.2 Conditions for safe storage, including any incompatibilities

Keep in tightly closed and appropriately labelled containers. Keep in a safe place.

7.3 Specific end use

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 National occupational exposure limit values

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8.1.2 Other limit values

-

8.1.3 DNEL

-

8.1.4 PNEC

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8.2 Exposure controls

8.2.1 Engineering controls

Good ventilation.

8.2.2 Eye/face protection

Wear safety goggles, if there is a risk of splashing.

8.2.3 Skin protection

Sufficient protective clothing.

8.2.4 Hand protection

Protective gloves are recommended.

8.2.5 Respiratory protection

Use respiratory protection, if ventilation is not sufficient.

8.2.6 Environmental exposure controls

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9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Oily, almost odourless liquid.

9.2 State

Oily, yellowish liquid.

9.2.1 Odour	Mild
9.2.2 Odour threshold	-
9.2.3 pH value	-
9.2.4 Melting point/freezing point	-
9.2.5 Boiling point and boiling range	-
9.2.6 Flash point	approx. 300°C
9.2.7 Evaporation rate	-
9.2.8 Flammability (solid, gas)	-
9.2.9 Upper/lower flammability/explosive limit	-
9.2.10 Vapour pressure	-
9.2.11 Vapour density	-
9.2.12 Relative density	904 kg/m ³ , (22°C)
9.2.13 Solubility (solubilities)	Insoluble in water.
9.2.14 Partition coefficient: n-octanol/water	-
9.2.15 Auto-ignition temperature	-
9.2.16 Decomposition temperature	-
9.2.17 Viscosity	7-10 cP (40° C)
9.2.18 Explosive properties	-
9.2.19 Oxidising properties	-

10. STABILITY AND REACTIVITY**10.1 Reactivity**

No dangerous reactions.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

None, if stored at normal storage and usage conditions.

10.4 Materials to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
- 11.2 Skin corrosion/irritation**
Repeated and long-term skin contact may cause skin dryness.
- 11.3 Serious eye damage/irritation**
Splashes may cause temporary eye irritation
- 11.4 Respiratory or skin sensitisation**
None known.
- 11.5 Germ cell mutagenicity**
None known.
- 11.6 Carcinogenicity**
None known.
- 11.7 Reproductive toxicity**
None known.
- 11.8 STOT-single exposure**
None known.
- 11.9 STOT-repeated exposure**
None known.
- 11.10 Aspiration hazard**
None
- 11.11 Other information**
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12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
The product is not toxic.
- 12.2 Persistence and degradability**
The product is biodegradable. The product is fully biodegradable when tested in accordance with OECD 301F (1).
- 12.3 Bioaccumulative potential**
None.
- 12.4 Mobility in soil**
Information not available.
- 12.5 Results of PBT and vPvB assessment**
Information not available.
- 12.6 Other adverse effects**
Information not available.

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
To be disposed of according to local regulations. The hazard of self-ignition should be taken into account in case of oily waste.

14. TRANSPORT INFORMATION

- 14.1 UN number** -
- 14.2 UN proper shipping name** -

Trade name: **EKO 100 Muottiöljy E**

Date: 1 January 2013

Former date: 16 January 2012

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14.3	Transport hazard class	Not classified for transportation
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	-

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Information not available.
- 15.2 Chemical safety assessment**
Not performed for the preparation.

16. OTHER INFORMATION

- 16.1 Changes to the previous version**
The MSDS is in accordance with the REACH 2010 form.
- 16.2 Abbreviations**
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- 16.3 Sources of information**
Data from the product manufacturer. Data from the ingredient manufacturer. REACH regulation.
(1) Study by the University of Oulu.
- 16.5 Method used for assessing the classification**
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- 16.6 List of R- and S-phrases or/and hazard and safety and precautionary phrases**
None
- 16.7 Training of employees**
None.