MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name

EKO 100 Economic Teräketjuöljy

REACH registration number

-

1.2 Relevant identified uses

Chain oil.

1.2.1 Classification of economic activities

020. Forestry and related services
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: +358 44 0605461,
Business ID: FI22909979

1.4 Emergency telephone number

1.4.1 Number, name and address

+358 9 471 977, (+358 9 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

3.2 Mixtures

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

The preparation does not contain hazardous ingredients. The product contains > 95% vegetable oil and < 5% natural rubber/vegetable oil preparation.

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

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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, dark yellow liquid.

9.2.1	**Odour**	Mild
9.2.2	**Odour threshold**	-
9.2.3	**pH value**	-
9.2.4	**Melting point/freezing point**	approx. -24°C
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**	921 kg/m3, (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**	46 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 Conditions 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. Rapeseed/colza oil is biodegradable.

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**	-
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.

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.