

MATERIAL SAFETY DATA SHEET**1. IDENTIFICATION OF THE CHEMICAL AND OF THE CHEMICAL MANUFACTURER, IMPORTER OR OTHER UNDERTAKING****1.1 Identification of the chemical**

Trade name

Identification code

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1.2 Purpose of use of the chemical**1.2.1 Description of purpose of use**

Chain oil.

1.2.2 Industrial code

020. Forestry and related services

D. Industry

1.2.3 Code for the purpose of use

35 Lubricants and additives

1.2.4 The chemical can be used by the general public X**1.3 Identification of the manufacturer, importer or other undertaking****1.3.1 Manufacturer, importer, other undertaking****1.3.3 Information on foreign manufacturer**

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1.4 Emergency telephone number**1.4.1 Number, name and address****2. COMPOSITION AND INFORMATION ON INGREDIENTS****2.1 Hazardous components****2.1.1**CAS number
or other
code**2.1.2**

Name of the ingredient

2.1.3

Concentration

2.1.4Warning symbol, R phrases
and other information on the
ingredient

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2.1.7 Other information

Product contains > 90% of pressed rapeseed/colza oil, < 10% of natural rubber/vegetable oil preparation.

3. HAZARDS IDENTIFICATION

Skin contact may cause drying of skin.

4. FIRST AID MEASURES

Trade name:

Date 16 Feb. 2006

Previous date 14 Nov. 2002

2/5

4.1 Special instructions

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4.2 Inhalation

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4.3 Skin contact

Wipe splashes with paper. Wash skin with soap and water.

4.4 Eye contact

Rinse eyes with water.

4.5 Ingestion

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4.6 Information to doctor or other trained persons giving first aid

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5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Smothering, dry powder, carbon dioxide (CO₂).

5.2 Extinguishing media which must not be used for safety reasons

Water. (Risk of spreading the fire.)

5.3 Special exposure hazards in a fire

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5.4 Special protective equipment for fire fighters

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5.5 Other instructions

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

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6.2 Environmental precautions

Keep the chemical out of the sewer system.

6.3 Methods for cleaning up

Absorb with peat, sawdust, paper towels, etc.

6.4 Other instructions

The product can be brought to a water-soluble state by soaping with e.g. an alkaline cleaning agent.

7. HANDLING AND STORAGE

7.1 Handling

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7.2 Storage

Keep in a cool place in light-proof containers.

7.3 Specific uses

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure limit values

8.1.1 TWA concentration

CAS number Name of component

Oil mist

5 mg/m³ (8 h)
, 2002

8.1.2 Other limit values

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8.2 Exposure controls**8.2.1 Occupational exposure controls**

Sufficient ventilation.

8.2.1.1 Respiratory protection

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8.2.1.2 Hand protection

Use of protective gloves is recommended. Material must be checked with the protective glove supplier.

8.2.1.3 Eye protection

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8.2.1.4 Skin protection

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8.2.2 Environmental exposure controls

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9. PHYSICAL AND CHEMICAL PROPERTIES
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9.1 General information (physical state, colour, odour)

Oily, greenish, nearly odourless liquid

9.2 Important health, safety and environmental information**9.2.1 pH** Neutral**9.2.2 Boiling point/range** -**9.2.3 Flash point** ca 300° C**9.2.4 Flammability (solid substances, gases)** -**9.2.5 Explosive properties****9.2.5.1 Lower explosion limit** -**9.2.5.2 Upper explosion limit** -**9.2.7 Vapour pressure** -**9.2.8 Relative density** 921 kg/m³, (22°C)**9.2.9 Solubility****9.2.9.1 Water solubility** Insoluble**9.2.9.2 Liposolubility (solvent oil, to be specified)** In all respects**9.2.10 Partition coefficient: n-octanol/water** -**9.2.11 Viscosity** Product: 150 cP (20°C)(Brookfield)**9.3 Other information**

Melting point: ca -25°C

Auto ignition temperature: > 300°C

Risk of auto ignition e.g. if product gets into insulating material of hot machinery.

Acid number 2.73 mg/g

Water content 438 ppm.

Surface tension: 33.35 (23°C) , 32.45 (40°C)

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid

No information is available on rapeseed oil. Natural rubber/vegetable oil preparation may decompose at temperatures above 290°C.

10.2 Materials to avoid

No information is available on rapeseed oil. As far as additives are concerned, contact with strong oxidising agents should be avoided.

10.3 Dangerous decomposition products

No information is available on rapeseed oil. Decomposition of natural rubber/vegetable oil preparation produces carbon dioxide and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

The product does not contain constituents classified as hazardous to health. Natural rubber/vegetable oil: LD50 value > 5 g/kg, orally, rat, on the basis of similar products.

11.2 Irritation and corrosivity

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11.3 Sensitisation

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11.4 Subacute, subchronic and prolonged toxicity

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11.5 Empirical data on effects on humans

Rapeseed/colza oil: no adverse effects observed.
Skin contact defats the skin and may cause drying of the skin.
Natural rubber/vegetable oil preparation does not cause irritation.

11.6 Additional toxicological information

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12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

12.1.1 Aquatic toxicity

Rapeseed/colza oil is non-toxic, but dissolves grease from e.g. the feathers of aquatic birds.

12.1.2 Toxicity to other organisms

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12.2 Mobility

The product does not dissolve in water.

12.3 Persistence and degradability

12.3.1 Biological degradability

Rapeseed/colza oil is biodegradable, 95% (1). Natural rubber/vegetable oil preparation is biodegradable: 100%; within 21 days.
Oxygen consumption (BOD) of the product compared to oxygen consumption of groundwater has been analysed. BOD5 of the product = 26 mg O₂, the oxygen consumption of groundwater being 7.5 mg O₂. (2)

12.3.2 Chemical degradability

Rapeseed/colza oil hydrolyses.

12.4 Bioaccumulative potential

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12.5 Other adverse effects

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13. DISPOSAL CONSIDERATIONS

Disposal according to local regulations. Risk of auto ignition shall be considered when disposing of oil-bearing waste.

14. TRANSPORT INFORMATION

14.1	UN number	-
14.2	Packing group	-
14.3	Land transport	
14.3.1	Transport class	Not classified for transport
14.3.2	Risk code	-
14.3.3	Name according to bill of freight	-
14.3.4	Other information	-
14.4	Sea transport	
14.4.1	IMDG class	-
14.4.2	Correct technical name	-
14.4.3	Other information	-
14.5	Air transport	
14.5.1	ICAO/IATA class	-
14.5.2	Correct technical name	-
14.5.3	Other information	-

15. REGULATORY INFORMATION

15.1	Information on the warning label	
	EC number	-
15.1.1	Letter code of the warning symbol and indications of danger for the preparation	-
15.1.2	Names of the ingredients given on the warning label	-
15.1.3	R phrases	-
15.1.4	S phrases	-
15.2	National regulations	The product has not been classified.

16. OTHER INFORMATION

16.1	List of the relevant R phrases	
16.4	Further information	
16.5	Sources of data used	
16.6	Information which has been added, deleted or revised	-
Date	14.11.2002	