PREOL

MATERIAL SAFETY DATA SHEET

RAPESEED OIL

Revision: 3
Valid from: 1.5.2018
No. of pages: 13

This MSDS is not required by Article 31 of Regulation (EC) 1907/2006 (REACH) as the relevant substance is not classified as hazardous, however, to comply with Article 32 of REACH Regulation and provide customers with relevant information, the format of the MSDS according to Commission Regulation (EU) No. 453/2010 has been used.

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Substance name	*CAS No.*	*EINECS No.*	*REACH Registration number*
Rape Oil	8002-13-9	232-299-0	Exempted of registration Regulation (EC) 1907/2006, Annex V (9), as amended.

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

Uses	*Substance/mixture/article*	*Industrial user/professional user/consumer*
Raw material for Fatty Acid Methyl Esters (FAME)	Substance	Industrial user
Use of vegetable oils in the food sector	Substance	Professional user

The substance is not classified as hazardous under Regulation on Classification, Labelling and Packaging (CLP) EC 1272/2008, therefore there are not uses advised against.

1.3 Details of the supplier of the safety data sheet

- **PREOL, a.s.**
  Terezínská 1214 Tel: +420 416 564 913
  410 02 Lovosice Mob: +420 601 395 017
  Czech Republic Contact person (MSDS): ondrej.klir@preol.cz

1.4 Emergency telephone number

- **Toxicological Information Centre** (TIC – Czech Republic)
  Na bojišti 1,
  12808 Praha 2;
  Tel. (24h): +420 224 91 92 93; +420 224 91 54 02; +420 224 91 45 75; +420 224 97 11 11

- **Transport Information and Emergency System (TRINS - Czech Republic)**
  It provides continuous training and practical assistance in dealing with emergencies associated with the transport or storage of hazardous chemicals in the Czech Republic. The assistance is provided via fire operational brigade (HZS) centers or via the national coordination center of Chemopetrol, a.s. in Litvinov.

  Contact telephone TRINS: + 4 2 0 4 7 6 7 0 9 8 2 6

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under Regulation (EC) No. 1272/2008 (CLP)
No classification

Most important adverse physicochemical, human health and environmental effects
Substance is not classified as hazardous. See also section 2.3.

2.2 Label elements

Label elements according to Regulation (EC) No. 1272/2008 (CLP)
Not relevant, substance is not classified as hazardous.

2.3 Other hazards

PBT (Persistent, Bioaccumulative and Toxic) or vPvB (very Persistent and very Bioaccumulative) criteria
Substance does not meet the criteria to be considered PBT neither vPvB

Other hazards
Eye contact: May cause minor eye irritation. *Skin Contact*: Prolonged or repeated contact is not likely to cause significant skin irritation. If the material is encountered at elevated temperatures, thermal burns are possible. *Inhalation*: Negligible unless heated to produce vapors. Vapors produced by heating, or finely misted materials may irritate the mucous membranes and cause dizziness, and nausea. *Ingestion*: No hazards anticipated from incidental ingestion to industrial exposure.

3. Composition/information on ingredients

3.1 Substances

Chemical identity of the main constituent of the substance

Main constituent	
EC name:	Rape Oil
EC number:	232-299-0
CAS number (EC inventory):	8002-13-9

Description:	The substance is obtained by pressing and oil extraction from natural rape seeds. The crude rape oil is semi-refined via acidulation and neutralization steps. The main fatty acid chains lengths focused on C16, C18 and C18 unsatd.
Molecular formula:	UVCB substance, not univocal molecular formula available
Molecular weight range:	836 g/mol

Chemical identity of any relevant impurity, stabilizing additive, or individual constituent other than the main constituent
None.

3.2 Mixtures

Not relevant as substance is not a mixture.

4. First aid measures

4.1 Description of first aid measures

First aid instructions

GENERAL ADVICE:

In case of accident or if you feel unwell, seek medical advice immediately (if possible, identify the substance to the medical staff).

EYES

Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. Seek medical attention if symptoms persist (burning sensation in the eye, etc.).

SKIN

Remove all contaminated clothes and footwear unless stuck to skin. Wash with plenty of soap and water.

INHALATION

Remove casualty from exposure ensuring one's own safety whilst doing so; seek medical attention if symptoms persist.

INGESTION

Do not induce vomiting. Wash out mouth with water and drink plenty of water, approx. 0,5l. If gastro-intestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person).

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects.
-Eye Contact: May cause minor eye irritation. -Skin Contact: Prolonged or repeated contact is not likely to cause significant skin irritation. Material is sometimes encountered at elevated temperatures. Thermal burns are possible. -Inhalation: Negligible unless heated to produce vapours. Vapours or finely misted materials may irritate the mucous membranes and cause irritation, dizziness, and nausea. Remove to fresh air. -Ingestion: No hazards anticipated from ingestion incidental to industrial exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed
Not relevant for this substance.

5. Fire fighting measures

5.1 Extinguishing media

Extinguishing media
Appropriate extinguishing media. Dry chemical powder, alcohol resistant foam, halon (may not be permissible in some countries), CO_2, water spray (fog). Unsuitable extinguishing media Water stream may splash the burning liquid and spread fire

5.2 Special hazards arising from the substance or mixture

Special hazards
In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Rape oil soaked rags or spill absorbents (i.e. oil dry, polypropylene socks, sand, etc.) can cause spontaneous combustion if stored near sparks or combustibles and not handled properly.

5.3 Advice for firefighters

Advice for firefighters
Fire-fighters should use self-contained breathing apparatus to avoid exposure to smoke and vapours. Wear protective clothing to prevent contact with skin and eyes. Protective equipment Fire-resistant clothing, self-contained breathing apparatus Additional information Flammable Class IV. according to ČSN 650201

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Personal precautions, protective equipment and emergency procedures.
Prevent contamination of clothes and shoes; avoid contact with the skin and eyes. When handling rape oil wear protective gloves. Prevent any leak in tanks and pipes. In case of spillage, remove any sources of ignition and keep the spilled liquid into the smallest possible area. Cover the area with spilled product with an absorbent (sawdust or sand).

6.1.1 For emergency responders

Advice for firefighters
Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6.2 Environmental precautions

Environmental precautions
Do not discharge into drains, sewerage or rivers.

6.3 Methods and material for containment and cleaning up

6.3.1 Spill containment
Stop the leaking of material if possible. Remove any source of ignition near the spilled material. Reduce the spilled material to the smallest possible area.

6.3.2 Spill clean-up
Pick up small spills with absorbent materials such as paper towels, "Oil Dry", sand or dirt and dispose of properly to avoid spontaneous combustion. Recover large spills for treatment and re-use or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film. The greasy nature of this film will result in a slippery surface.

6.3.3 Other information
Not relevant for this substance

6.4 Reference to other sections

Reference to other sections
See also sections 8 and 13

7. Handling and storage

7.1 Precautions for safe handling

Note: Substance **Rape Oil** is not classified as hazardous according to the criteria of CLP Regulation (EC) No. 1272/2008. Specific Risk Management Measures are therefore not required. Nevertheless, the exposure of workers during and after normal operations should be minimized by the use of good industrial hygiene practice.

7.1.1 Recommendations for safe handling
Use safety gloves when handling to avoid direct contact with the substance.

7.1.2 Occupational hygiene advice.
Do not eat, drink or smoke in work areas; wash hands after use; and remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions
Store in well ventilated area. Keep away from sources of ignition, oxidizing agents, excessive heat and direct sunlight. Keep container tightly closed. Protect from frost. Store at +10°C to +25°C.

7.3 Specific end use(s)

Reference to other sections
See section 1.2

8. Exposure controls/personal protection

8.1 Control parameters

Control parameters
Exposure limits are not established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls
Not established

8.2.2 Individual protection measures
RESPIRATORY PROTECTION: If vapours or mists are generated, wear a NIOSH approved organic vapour/mist respirator. PROTECTIVE CLOTHING: Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. PVC coated gloves recommended to prevent skin contact. OTHER PROTECTIVE MEASURES: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

8.2.3 Environmental exposure controls
Prevent product from entering drains. Is not allowed to pour any amount of the product to the sewerage or water pipes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Overview of physicochemical properties	
Appearance	Green/yellow liquid oil
Odour	Mild
Odour threshold	N/A
pH	N/A
Melting point/freezing point	-9°C
Initial boiling point and boiling range	N/A
Flash point	> 225°C
Evaporation rate	N/A
Flammability	According to EC 1272/2008 (CLP): Not flammable According to ČSN 65 0201 – Flammable liquid Class IV.
Upper/lower flammability or explosive limits	N/A
Vapour pressure	N/A
Vapour density	N/A

Overview of physicochemical properties	
Relative density	approx. 0.915 g/cm3 at 20°C
Solubility(ies)	Practically insoluble in water Largely soluble in organic solvents
Auto-ignition temperature	approx. 400°C
Decomposition temperature	N/A
Viscosity	80 mm^2/s at 20°C
Explosive properties	Not explosive.
Oxidising properties	Not oxidizing.

9.2 Other information

Other information
N/A

10. Stability and reactivity

10.1 Reactivity

Reactivity hazards
This product is stable and hazardous reaction will not occur under the recommended conditions for handling and storage.

10.2 Chemical stability

Chemical stability
The substance is stable under normal ambient and hazardous polymerization reaction will not occur under the recommended conditions for handling and storage.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions
See 10.6

10.4 Conditions to avoid

Conditions to avoid
See 10.5

10.5 Incompatible materials

Incompatible materials
Strong oxidizing agents. Strong bases.

10.6 Hazardous decomposition products

Hazardous decomposition products
Combustion produces carbon monoxide, carbon dioxide along with thick smoke.

11. Toxicological information

11.1 Information on toxicological effects

Information on the following hazard classes: Rape oil			
Hazard class		*Result*	*Test method*
Acute toxicity	Oral:	N/A	
	Dermal :	N/A	
Skin corrosion/irritation;		N/A	
Serious eye damage/irritation;		N/A	
Sensitisation;	Respiratory sensitisation	No information but no respiratory sensitisation is expected.	
	Skin sensitisation;	N/A	
Germ cell mutagenicity;	Reverse gene mutation assay	N/A	
	In vitro cytogenicity test	N/A	
	In vitro mammalian cell mutation test.	N/A	
Carcinogenicity;		N/A	
Reproductive toxicity;	Developmental effects	N/A	
	Fertility effects		
STOT-single exposure;		No information	No information
STOT-repeated exposure;		N/A	
Aspiration hazard.		No information	No information

CMR (Carcinogenic, Mutagenic and Repro-toxic) properties assessment
N/A

The effects of the substance via each possible route of exposure
See section 2 for effects of the substance.

Potential adverse health effects and symptoms
See section 2 for effects of the substance.

Information on whether delayed or immediate effects
See section 2 for effects of the substance.

Interactions
None expected.

Other information
See section 2 for effects of the substance

12. Ecological information

12.1 Toxicity

N/A

12.2 Persistence and degradability

N/A

12.3 Bioaccumulative potential

N/A

12.4 Mobility in soil

N/A

12.5 Results of PBT and vPvB assessment

Substance is not considered PBT either vPvB.

12.6 Other adverse effects

N/A

13. Disposal considerations

13.1 Waste treatment methods

Waste treatment methods
Disposal of wastes and residues must be in accordance with applicable waste legislation (185/2001 Coll. Act on Waste). Wastes can be disposed of only by authorized personnel. It is not allowed pouring any amount of the substance into the sewerage network and waters. If this happens, use flotation barriers to prevent the spread of oil in the water. Provide the contaminated absorbents to a specialized company for disposal. Due to biodegradability, contaminated absorbent materials may be stored on approved landfills.

14. Transport information

Transport information for Rape oil	
Land transport (ADR/RID/)	
UN number	Not classified
Class	Not classified
Classification code	Not classified
Packaging group	Not classified
Labels	Not classified
Inland waterway transport (AND(R))	
UN number	Not classified
Class	Not classified
Classification code	Not classified
Packaging group	Not classified
Labels	Not classified
Marine transport (IMDG)	
UN number	Not classified
Proper shipping name and description	Not classified
Chemical name	Not classified
Class	Not classified

Packaging group	Not classified
EmS number	Not classified
Labels	Not classified
Marine pollutant	Not classified
Air transport ICAO/IATA	
UN number	Not classified
Proper shipping name and description	Not classified
Chemical name	Not classified
Class	Not classified
Packaging group	Not classified
Labels	Not classified

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific safety, health and environmental regulations/legislation for the substance.

IATA - International Air Transport Association

RID - Regulations for international rail transport of dangerous goods.

ADR - European Agreement concerning international carriage of dangerous goods by road.

ČSN 650201 - Flammable liquids. Plants and warehouses.

Gov. Regulation no. 361/2007 Coll., laying down conditions for the protection of health of workers at work as amended.

Act no. 201/2012 Coll. on Air Protection, as amended.

Act no. 350/2011 Coll. on chemical substances and mixtures, and amending certain laws (Chemical Law)

Decree no. 93/2016 Coll. on waste catalogue

Act no. 111/1994 Coll. on road transport, as amended

Act no. 185/2001 Coll. on wastes, as amended

Act no. 254/2001 Coll. on waters, as amended

EC Regulation no. 1907/2006 Registration, evaluation, authorization and restriction of chemicals, establishing a European Chemicals Agency (REACH)

EC Regulation no. 453/2010. Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH - MSDS)

EC Regulation no. 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP)

15.2 Chemical safety assessment

Chemical Safety Assessment
Exempted under REACH registration, no chemical assessment required

16. Other information

ATTENTION: This safety data sheet reflects our present knowledge and describes the product as to its safety requirements. It does not assure any characteristics but gives recommendations for safe storage and handling measures. Receivers have to observe any legal regulation in their own responsibility.

SDS revision information
First edition of the document: Revision 0 from 25. 1. 2013 - Document Edition version MSDS Second edition of the document: Revision 1 from 31. 5. 2015 - Document Edition version MSDS Third edition of the document: revision 2 from 26. 8. 2016 - document edition in MSDS version

Key/Abbreviations
CSA: Chemical Safety Assessment PBT: Substance with Persistent, Bioaccumulative and Toxic properties. vPvB: Substance with very Persistent and very Bioaccumulative properties.

Key References
ECHA - European Chemical Agency - Information on chemicals http://echa.europa.eu/information-on-chemicals

Classification information for mixtures
Not relevant

List of relevant hazard statements and/or precautionary statements.
Not relevant. Described in Sections 2 to 15.

Advice on appropriate training for employees
Regular training in the scope safety handling, health and environment.