PREOL

MATERIAL SAFETY DATA SHEET

RAPESEED OIL

Revision: 5
Valid from: May 1, 2023
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 SDS according to Commission Regulation (EU) No. 2020/878 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

2.3.1 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

2.3.2 Properties causing endocrine system disorder
Substance was not added into the list of substances causing endocrine system disorder based on the article no. 59, paragraph 1 of the European parliament and Council regulation (ES) 1907/2006 and was not determined as a substance with properties causing endocrine system disorder based on the Council regulation 2017/2100 and 2018/605.

2.3.3 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
Specific concentration limit:	Not available (substance is not included in the regulation (ES) no. 1272/2008, annex VI, part 3, neither the value was determined based on the annex I of the same regulation)
Multiplication factor:	Not available (substance is not included in the regulation (ES) no. 1272/2008, annex VI, part 3, neither the value was determined based on the annex I of the same regulation)
Acute toxicity estimation:	Not available (substance is not included in the regulation (ES) no. 1272/2008, annex VI, part 3, neither the value was determined based on the annex I of the same regulation)
Nanoform characteristics:	Substance does not include any nanoform

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

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).

6.2 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.

DNEL and PNEC values
Not available

8.2 Exposure controls

8.2.1 Appropriate engineering controls
Not established

8.2.2 Individual protection measures
EYES AND FACE PROTECTION: Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. HANDS PROTECTION: PVC coated gloves recommended to prevent skin contact. RESPIRATORY PROTECTION: If vapors or mists are generated, wear a NIOSH approved organic vapor/mist respirator. 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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Overview of physicochemical properties	
Appearance	Green/yellow liquid oil
Odor	Mild
Odor 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
Vapor pressure	N/A

Overview of physicochemical properties	
Vapor density	N/A
Relative density	approx. 0.915 g/cm^3 at 20°C
Solubility(ies)	Practically insoluble in water Largely soluble in organic solvents
Partition coefficient n-octanol/water	N/A
Auto-ignition temperature	approx. 400°C
Decomposition temperature	N/A
Viscosity	80 mm^2/s at 20°C
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Particle characterization	N/A (liquid)

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

11.2 Evaluation of CMR properties

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

11.3 Effects of the substance upon possible exposure

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.

11.4 Information regarding other potential hazards

Other information
See section 2 for effects of the substance

Properties causing endocrine system disorder
No adverse effects on human health expected, since the substance was not added into the list of substances causing endocrine system disorder based on the article no. 59, paragraph 1 of the European parliament and Council regulation (ES) 1907/2006 and was not determined as a substance with properties causing endocrine system disorder based on the Council regulation 2017/2100 and 2018/605 (see section 2)

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 Properties causing endocrine system disorder

Properties causing endocrine system disorder
No adverse effects on the environment expected, since the substance was not added into the list of substances causing endocrine system disorder based on the article no. 59, paragraph 1 of the European parliament and Council regulation (ES) 1907/2006 and was not determined as a substance with properties causing endocrine system disorder based on the Council regulation 2017/2100 and 2018/605 (see section 2)

12.7 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 (Coll. Act on Waste, see 15.1). 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

14.1 UN or ID number:	Not classified
14.2 Official (OSN) label for transport:	Not classified
14.3 Hazard class/ classes for transport:	Not classified
14.4 Packaging group:	Not classified
14.5 Environmental hazard:	Not classified
14.6 Special safety precautions for users:	Not classified
14.7 Marine transport based on IMO rules	N/A

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. **IMDG** – International guideline for dangerous goods transport by ship **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. 541/2020 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) **EC Regulation no. 2020/878** Registration, evaluation, authorization and restriction of chemicals (REACH) **EC Regulation no. 2017/2100** Scientific criteria for the determination of the properties causing endocrine system disorder based on the European parliament and Council regulation no. 528/2012 **EC Regulation no. 2018/605** Scientific criteria for the determination of the properties causing endocrine system disorder **European parliament and Council regulation (EU) no. 2016/425** Personal protective equipment

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 Fourth edition of the document: Revision 3 from 1.10.2021 – document Edition version MSDS Fifth edition of the document: Revision 5 from 1.5.2023 – document edition version MSDS

Changes made compared to the previous version
None

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.