MINERAL BRAKE OIL

Version: 1.2
Released: 2020-12-10 Revision Date: 2022-11-07

1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

Supplier:

Maxima Racing Oils
9266 Abraham Way
Santee, CA 92071
USA
+1 619 449 5000

Product Name: Mineral Brake Oil

Article Number:

Applications: Brake Fluid

Emergency Telephone: CHEMTREC +1 703 527 3887 (24 hours)

2. HAZARDS IDENTIFICATION

GHS Classification

Aspiration Hazard	Category 1
Acute Inhalation Toxicant	Category 4

GHS Pictogram

Signal Word

Danger!

Hazard Statements

H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.

Precautionary Statements

Prevention

P261 Avoid breathing mist/vapors.
P271 Use only outdoors or in a well-ventilated area.
P301 + P310 If swallowed: Immediately call a poison center or doctor/physician.

Response

P304 + P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312 Call a poison center or doctor/physician if you feel unwell.
P331 Do NOT induce vomiting.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents and container in accordance with local, regional and national regulations.

Other Hazards

None

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Content %	CAS Number	GHS Hazard Codes
Dec-1-ene, dimers, hydrogenated	80-100	68649-11-6	H304, H332

The specific identity and/or exact percentage has been withheld as a trade secret.

4. FIRST-AID MEASURES

Inhalation	If inhaled immediately remove to fresh air. If irritation or difficulty in breathing occurs, get immediate medical attention.
Skin Contact	Wash skin with soap and water. Remove clothing and shoes if contaminated. Launder clothing before reuse. If irritation or rash develops, get medical attention.
Eye Contact	Flush eyes with water for several minutes. Remove contact lenses, if present and easy to do so. If eye irritation persists, get medical attention.
Ingestion	May be fatal if swallowed and enters airways. If swallowed immediately call a POISON CENTER. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.
Most Important Symptoms	Harmful if inhaled. Inhalation of vapors or mist may cause central nervous system effects such as headache, dizziness, drowsiness, nausea and unconsciousness. May cause mild eye irritation. Prolonged skin contact may cause irritation. May cause an allergic skin reaction. Inhalation of vapors or mists may cause respiratory irritation. Aspiration hazard. May be fatal if swallowed and enters lung and airways.
Indication of Immediate Medical Attention Needed	Immediate medical attention required if inhaled or ingested.
Notes to Physician	Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.
Specific Hazards Arising From The Chemical	This material will burn although it is not easily ignited. Combustion will produce carbon oxide and unidentified organic compounds.
Special Protective Equipment And Precautions For Fire-Fighters	Firefighters should wear full emergency equipment and a NIOSH approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate protective equipment. Wash thoroughly after handling. See also: “Personal Protection "section 8.
Environmental Hazards	Avoid release into the environment. Report spill as required by local and federal regulations.
Methods/Materials for Cleaning up	Dike spill and collect with an inert absorbent. Place into closable containers for disposal. Collected material is handled in accordance with section 13 "Disposal Considerations".

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid breathing vapors and mists. Avoid contact with skin, eyes and clothing. Wear protective clothing and equipment. Wash thoroughly with soap and water after handling. Remove oil-soaked clothing and launder before re-use.
Conditions for Safe Storage	Store in a cool area away from oxidizing agents. Protect containers from physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Dec-1-ene, dimers, hydrogenated 1 mg/m^3 TWA (manufacturer)
Appropriate Engineering Controls	Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.
Personal Protection	
Respiratory Protection:	If exposure limits are exceeded, use a NIOSH approved respirator with organic vapor cartridges and particulate pre-filter. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.
Eye Protection:	Safety glasses or goggles recommended if splashing is possible.
Skin/Body Protection:	No special protective clothing is normally required. If there is a potential for prolonged skin contact, wear a long sleeved shirt and apron. Neoprene or nitrile rubber boots when necessary to avoid contaminating shoes.
Hand Protection:	None should be needed under normal use conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Green
Odor	Mild
Odor Threshold	No data available

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pH	No data available
Freezing Point	No data available
Boiling Point	215°C
Flash Point	160°C
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper Explosion Limit	No data available
Lower Explosion Limit	No data available
Vapor Pressure	1.00 mm Hg (75°C)
Vapor Density (Air=1)	No data available
Relative Density	0.83 (15°C)
Solubility	Soluble in hydrocarbons; insoluble in water
Partition Coefficient: n-octanol/water	No data available
Auto Ignition Temperature	324°C
Decomposition Temperature	No data available
Volatile Organic Compounds (VOC)	No data available
Viscosity	< 20.5 cSt @104°F (40°C)

10. STABILITY AND REACTIVITY

Reactivity	Not expected to be reactive.
Chemical Stability	Stable.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	Avoid temperatures over 120°F, open flames and sparks.
Incompatible Materials	Avoid contact with strong oxidizing agents.
Hazardous Decomposition Product	Thermal decomposition may produce carbon oxides and unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

Potential Health Hazards
Eye Contact: May cause mild irritation.
Skin Contact: Prolonged or repeated contact may cause mild irritation or dryness. Repeated skin contact may cause dermatitis.
Inhalation: Inhalation of vapors or mist may cause central nervous system effects such as headache, dizziness, drowsiness, nausea and unconsciousness.

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Ingestion: Swallowing large amounts may cause gastrointestinal effects including nausea and diarrhea. Aspiration into the lungs during ingestion or vomiting may cause serious lung damage which may be fatal.
Chronic Effects of Overexposure: Used motor oils have been found to cause skin cancer in skin painting studies with laboratory animals.
Sensitization: None of the components have been found to cause sensitization in animals or humans.
Mutagenicity: This product is not expected to cause mutagenic activity.
Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.
Carcinogenicity: None of the components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP, or OSHA.

Acute Toxicity:

ATEmix	1.33 mg/L/4 hr (aerosol)
Dec-1-ene, dimers, hydrogenated	Oral rat LD50 >5000 mg/kg Inhalation rat LC50 1.17 mg/L/4 hr (aerosol) Dermal rat LD50 >2000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Dec-1-ene, dimers, hydrogenated	96 hr LL0 Oncorhynchus mykiss 1000 mg/L (not toxic at water solubility) 48 hr EL0 Daphnia magna 1000 mg/L (not toxic at water solubility) 72 hr ErL0 algae 1000 mg/L (not toxic at water solubility)
Biodegradation	Readily biodegradable (percent degraded, 28 days, 49.2-53.5)
Bioaccumulation	Not expected to bioaccumulate.
Mobility in soil	Log Koc > 6.2 (sediment absorption) – very high mobility in soil.
Other adverse effects:	None known.

13. DISPOSAL CONSIDERATIONS

Disposal Dispose in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			
TDG		Not Regulated			
IMDG		Not Regulated			
IATA		Not Regulated			

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Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form
Special precautions: None known.

15. REGULATORY INFORMATION

CERCLA: This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.
EPA SARA 311 Hazard Classification: Acute Toxicity (any route of exposure), Aspiration Hazard
EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313: None

California Proposition 65: This product contains the following chemicals known to the State of California t cause cancer and reproductive toxicity:

Ethylacrylate	140-88-5	< 2.0 ppm	Cancer
Naphthalene	91-20-3	< 34.0 ppm	Cancer

Chemical Inventories
Toxic Substances Control Act: All of the components of this product are listed on the TSCA inventory

16. OTHER INFORMATION

NFPA Rating (NFPA 704):	Health: 2	Fire: 1	Instability: 0
HMIS Rating:	Health: 2	Fire: 1	Physical Hazard: 0

Date of Revision: December 10, 2020
Date of Previous Revision: September 21, 2022
Revision History:
Version 1.1
Version 1.2 – Updated physical properties

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.