



ASSEMBLY LUBE

Released: 2017-12-15

Version: 1.2
Revision Date: 2024-09-26

1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

Supplier:	Product Name: Assembly Lube
Maxima Racing Oils 9266 Abraham Way Santee, CA 92071 USA +1 619 449 5000	Article Number: 69-01904, 69-01505 Applications: 4T Engine Oil Lube Additive Emergency Telephone: In USA: CHEMTREC +1 703 527 3887 (24 hours) Outside USA: +1 619 449 5000

2. HAZARDS IDENTIFICATION

GHS Classification	Not classified as hazardous in accordance with OSHA Hazcom 2012
GHS Pictogram	None
Signal Word	None
Hazard Statements	None
Precautionary Statements	
Prevention	None
Response	None
Storage	None
Disposal	None
Other Hazards	None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Content %	CAS Number
Petroleum Distillates	80-100	Proprietary
Zinc Alkyldithiophosphate	>1-< 2	Proprietary
Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerization, hydrolyzed, esterification products with propylene oxide	0.5-< 1	Proprietary
Cinnamaldehyde	0.1-< 0.5	104-55-2
Benzyl benzoate	0.1-< 0.25	120-51-4
Long chain alkyl-thiocarbamate metal complex	0.1-<0.2	Proprietary

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



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4. FIRST-AID MEASURES

Inhalation	If inhaled remove to fresh air. If irritation or difficulty in breathing occurs, get 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	If conscious, rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
Most Important Symptoms	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. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Indication of Immediate Medical Attention Needed	Immediate medical attention is not required.
Notes to Physician	Treat appropriately

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use water fog, foam, dry chemical or carbon dioxide (CO ₂) 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

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.



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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 contact with skin, eyes and clothing. Avoid breathing vapors and mists. 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	Petroleum Distillates	5 mg/m ³ TWA OSHA PEL (as oil Mist) 5 mg/m ³ TWA ACGIH TLV (inhalable) (as mineral oil)
	Zinc Alkyldithiophosphate	None Established
	Succinic anhydride, alkylation products with C12-rich branched olefins from propene ligomerization, hydrolyzed, esterification products with propylene oxide	None Established
	Cinnamaldehyde	None Established
	Benzyl benzoate	None Established

Appropriate Engineering Controls Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. If the recommended exposure limit is exceeded increased mechanical ventilation such as local exhaust may be required.

Personal Protection

Respiratory Protection: None needed under normal use conditions with adequate ventilation. 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.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous liquid
Color	Red
Odor	Cinnamon odor
Odor Threshold	No data available
pH	No data available
Freezing Point	No data available
Boiling Point	No data available
Flash Point	378°F (190°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	<0.01 mmHg @ 100°F (38°C)
Vapor Density (Air=1)	>1
Relative Density	0.85-0.87 @ 60°F (15.6°C)
Solubility	Soluble in hydrocarbons; insoluble in water
Partition Coefficient: n-octanol/water	No data available
Auto Ignition Temperature	No data available
Decomposition Temperature	No data available
Volatile Organic Compounds (VOC)	< 1.0% weight (Approximate)
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.



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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. May cause an allergic skin reaction.

Inhalation: Excessive inhalation of vapors or mists may cause upper respiratory tract irritation.

Ingestion: Swallowing large amounts may cause gastrointestinal effects including nausea and diarrhea.

Chronic Effects of Overexposure: Used motor oils have been found to cause skin cancer in skin painting studies with laboratory animals.

Sensitization: The product is classified as a skin sensitizer. Succinic anhydride, alkylation products with C12-rich branched olefins from propene ligomerization, hydrolyzed, esterification products with propylene oxide, cinnamaldehyde and long chain alkylthiocarbamate metal complex are classified as skin sensitizers.

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:

Petroleum Distillates	Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >5.0 mg/L/4 hr (aerosol), Dermal rabbit LD50 >2000 mg/kg
Zinc Alkyldithiophosphate	Oral rat LD50 3200 mg/kg, Inhalation rat LC50 >2.3 mg/L/4 hr (aerosol), Dermal rabbit LD50 >2000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Petroleum Distillates	96 hr LL0 Pimelas promelas 100 mg/L, 48 hr ELO Daphnia magna 1000-10000 mg/L, 72 hr ELO Pseudokirchneriella supracapitata 100 mg/l
Zinc Alkyldithiophosphate	96 hr LC50 Oncorhynchus mykiss 4.5 mg/L, 48 hr EC50 daphnia magna 23 mg/L, 72 hr EC50 Scenedesmus quadricauda 21 mg/L
Succinic anhydride, alkylation products with C12-rich branched olefins from propene ligomerization, hydrolyzed, esterification products with propylene oxide	96 hr LC50 Rainbow Trout > 100 mg/L, 48 hr EC50 Daphnia magna > 100 mg/L, 72 hr EC50 Pseudokirchneriella subcapitata > 100 mg/L

Biodegradation

Petroleum distillates are not readily biodegradable (< 60% after 28 days).
Zinc Alkyldithiophosphate is not readily degradable (OECD TG 301 B).



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Bioaccumulation

Succinic anhydride, alkylation products with C12-rich branched olefins from propene ligomerization, hydrolyzed, esterification products with propylene oxide: Carbon dioxide generation 17% (28 d).

Petroleum distillates have a log Kow of > 3.5 which suggests a potential for bioaccumulation.

Zinc Alkyldithiophosphate has a log Kow of < 3 which does not suggest a potential for bioaccumulation.

Succinic anhydride, alkylation products with C12-rich branched olefins from propene ligomerization, hydrolyzed, esterification products with propylene oxide: Bioconcentration Factor (BCF): 3.16 (calculated) which suggests a low potential for bioaccumulation.

Mobility in soil

The product is not water soluble (floats on water). Limited 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			

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: Immediate (acute) health hazard.

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313: None.



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California Proposition 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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: April 9, 2024

Date of Previous Revision: May 13, 2019

Revision History:

12/15/17: New document

05/13/19: Updated classification to non-hazardous based on new data

04/09/2024: Document reviewed

09/26/24: Updated section 9 with more lab data and reviewed all sections to ensure they are up to date

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.