



ASSEMBLY LUBE

Released: 2017-12-15

Version: 1.0
Revision Date: 2017-12-15

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: Assembly Lube

Article Number: 69-01904

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 Skin Sensitizer Category 1

GHS Pictogram



Signal Word Warning!

Hazard Statements H317 May cause an allergic skin reaction.

Precautionary Statements

Prevention P261 Avoid breathing mist or vapors.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.

Response P302 + P352 IF ON SKIN: Wash with soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage None

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

Other Hazards None

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Components | Content % | CAS Number |
|---------------------------|-----------|-------------|
| Petroleum Distillates | 80-100 | Proprietary |
| Zinc Alkyldithiophosphate | >1-< 2 | Proprietary |



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| 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.

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 | 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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Precautions For Fire-Fighters

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 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



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- 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.
- Hand Protection:** Use nitrile or neoprene gloves for prolonged or repeated skin contact.

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) | No data available |
| Viscosity | >20.5 cSt @ 104°F (40°C) |

10. STABILITY AND REACTIVITY



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| 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. 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 LLO Pimelas promelas 100 mg/L, 48 hr ELO Daphnia magna 1000-10000 mg/L, 72 hr ELO Pseudokirchneriella supcapitata 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 |



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

Bioaccumulation 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



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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.

California Proposition 65: This product contains the following chemicals known to the State of California to cause cancer and reproductive toxicity: None.

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 15, 2017

Date of Previous Revision: None

Revision History:

12/15/17: New document

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.