



MATERIAL SAFETY DATA SHEET

Health & Safety Information

Trade Name: **MPZ® Engine Assembly Lube**
 Product Part Number:A550055-(Z,J,K)
 W/C Manufacturing Plant
 Visual Description: Red High Viscosity liquid.
 Date Prepared: 01-15-01
 Reviewed / Updated: 03-07-01, 06-15-01, 04-17-03

Section 1: Chemical Product & Company Identification

Manufacturer

Torco International Corp.
 10562 Bloomfield Ave.
 Santa Fe Springs, CA 90670
 USA

NFPA
 (Codes 0=minimal; 1=slight; 2=moderate;
 3=serious; 4=severe.)
NFPA
 Fire - 1
 Health - 1
 Reactivity - 0
 Specific Hazard - 0

Phone Numbers:

Torco International (562) 906-2120
 8:00 AM- 5:00 PM Pacific

Chemical Emergency:

Chemtrec: (24 hr) (800) 424-9300 all calls recorded.

Chemical Family:

Hydrocarbon distillate mixture, Oil

Section 2. Composition / Information Identity of Ingredients

Components Synonym	CASNR May contain one or more of the following CASRN	Amount (%)	Exposure Limits
Base Materials Distillates Petroleum Hydrotreated Hydrocarbons. Synthetic Hydrocarbons.	64742-55-8, 64742-56-9, 64742-65-0, 64741-97-5, 64742-54-7, 64741-88-4, 64742-01-4, 64742-57-0, 64742-62-7 68037-01-4, 64741-97-5	40-99	PEL/TWA: 5 mg/m3, mist (OSHA, ACGIH) STEL: 10mg/m3, mist (ACGIH)
Polymers (1)	N/A "Mixture"	5-40	PEL/TWA: 5 mg/m3, mist (OSHA, ACGIH) STEL: 10mg/m3, mist (ACGIH) LD 50 >5000 mg/kg (Rats). (oral) / LC 50 >2000 mg/kg (rabbits).
Additives (2)	N/A "Mixture"	3-10	PEL/TWA: 5 mg/m3, mist (OSHA, ACGIH) STEL: 10mg/m3, mist (ACGIH)

Hazardous Information: Highly refined petroleum oil and other petroleum hydrocarbons, by definition are considered hazardous according to OSHA, 29 CFR 1910.1200 because they carry the Threshold Limit Value (TLV) for mineral oil mist.

(1) Polymers, trace amounts of Olefin, Methacrylate or Ethylene-Propylene polymers.

(2) Multi-functional additive mixture of anti foam additives, dispersants, corrosion inhibitors pour point depressants, rust inhibitors, viscosity index improvers, composed of various organo-metallic compounds, typically containing zinc dialkyldithiophosphate (CAS 6849-42-3), calcium salts and other trace elements.

Section 3. Hazards Identification / Physical Characteristics / Typical Data

Boiling Point: NDA *Vapor Density:* (Air=1): >1/ Heavier than air

Solubility in Water: No / Nil *Specific Gravity:* (Water =1) .891 % *Volatile by Volume:* Nil

Flash Point: 240° (C) 460° (F) C.O.C. (typical) *Fire Point:* < 500° (F) (typical)

Evaporation Rate: Slower than ether. *pH:* N.A *Form:* Liquid

Color: Red *Odor:* Petroleum *Other:*

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Section 4. First Aid Measures Health & Safety Information

Emergency First Aid Procedures:

Skin

Flush With Soap & Water

Contaminated Clothing – remove and launder.

Eyes:

Flush eyes with water for 15 minutes. May cause redness or irritation.

Ingestion: Give plenty of water or mild fluids, and call physician immediately. Do not induce vomiting. If vomiting occurs, place head lower than hips, keep fluid from entering lungs. Aspiration into lungs should be avoided. *Aspiration Hazard:* Yes- keep product from entering lungs.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration and Oxygen.

Routes of entry:

Skin / absorption: No

Eyes: Yes

Ingestion: Yes

Inhalation: Yes

Health Hazards

Acute

Ingestion:

Acute: Low order of toxicity, but may cause gastrointestinal nausea and general distress, diarrhea. Ingestion of large amounts may cause headache, nausea, and drowsiness.

Skin:

Acute: Not expected to cause prolonged or significant skin irritation.

Eye Contact:

Not expected to cause prolonged or significant eye irritation. Minimal hazard.

Respiratory System:

Harmful concentrations of mists / vapors are unlikely through customary handling or use of product.

Signs & Symptoms of Exposure:

Skin chapped & red, eyes may become red and tear, headache, nausea.

Medical Conditions Generally Aggravated by Exposure:

Pre-existing dermal conditions.

Other:

None

Section 5. Fire & Explosion Data

NFPA (Codes 0=minimal; 1=slight; 2=moderate; 3=serious; 4=severe.)

NFPA = Fire – 1 / Health - 1 / Reactivity - 0 / Specific Hazard - 0

Flash Point. 240° (C) 460° (F) C.O.C. (typical) **Fire Point:** < 500° (F) (typical)

Evaporation Rate: Slower than ether. **Flammable Limits:** 1-7% by volume in air.

Explosive Limits: (for product) Lower 1.0% Upper 7%

Stability: Stable **Hazardous Polymerization:** Will not occur.

Extinguishing Media: Water Fog - CO2 – Dry Chemical – Foam – Earth or Sand.

Unusual Fire Hazards: Do not use a direct stream of water for fighting fires, product is lighter than water and will float. Heated vapors / fumes may ignite.

Special Fire Fighting Procedures: Foam may be used to suppress fumes and vapors. Fire fighters should use NIOSH approved positive air breathing apparatus (SCBA) if fighting fires in a confined space. Containers exposed to extreme heat may rupture. Keep containers cool with water fog.

Combustion or Decomposition Products: Carbon Monoxide and hydrocarbon compounds may be formed during combustion.

Section 6. Accidental Release Measures

SPILL OR LEAK

General: Absorb with sand or inert material, sweep or scoop up and remove small quantities. Prevent spread of liquid product. Contain with absorbent materials. Clean paved areas with soap & water, recycling of wash water is recommended with other water based industrial fluids.

Small Spills:

Clean up small spills with absorbent material. Wash or mop area with soap & water. Do not wash visible liquid to drain.

Large Spills:

Eliminate all ignition sources. Product will float on water. Contain liquid with absorbent material. Stop leak source if safe. Absorb liquid with absorbent material, keep product from entering waterways and sewers. Contact authorities as required, that a spill has occurred. **Large Spills:** Contact regional authorities and Chemtrec (800) 424-9300.

Waste Disposal Methods:

Dispose of contaminated absorbent material in accordance with all Federal, State & regional requirements.

Section 7. Handling & Storage

Work / Hygienic Practices:

Work / Hygienic Practices:

Wash with soap and water after handling product. Product absorbs into organic materials such as cotton or leather, destroy saturated shoes & gloves.

INDUSTRIAL Workplace / Hygienic Practices:

Thoroughly wash all contaminated clothing before reuse. Long sleeve shirt recommended. Safety Glasses, Face shield, latex gloves & apron recommended if cleaning up large spills. Rubber boots & should be worn if standing in solution. Limit skin contact. Destroy saturated shoes & gloves.

Other Precautions:

WARNING: avoid skin contact with used motor oils. Used motor oils have caused cancer in laboratory animals. Store Between 40° and 120° degrees F. Keep containers from freezing, bottles may become brittle. Do not reuse containers. Keep out of reach of children.

Section 8. Exposure Controls & Personal Protection

Personal Protection Equipment:

Eye / Face Protection:

Safety goggles or glasses.

Skin Protection:

Wear oil impervious type, such as nitril, neoprene, or polyvinylchloride (PVC) to minimize skin contact.

Respiratory Protection:

None required for normal use. If exposure to mists or vapors is expected to exceed occupational exposure limits for oil mists, use a NIOSH approved respirator to prevent overexposure. Use an atmosphere supplying respirator or an air-purifying respirator for organic vapors and particulates.

Engineering Controls: (*Local / Mechanical / Special*) Local for normal product use.

Section 9. Physical & Chemical Properties

<i>Form:</i> Liquid	<i>Odor:</i> Petroleum, mild	<i>Color:</i> Red
<i>Flash Point:</i> 240° (C) 460° (F) C.O.C. (typical)		<i>Boiling Point:</i> >425° (C)
<i>Vapor Density:</i> (Air=1): >1-Heavier than air		<i>Solubility in Water:</i> No / Nil
<i>Specific Gravity:</i> (Water =1) .891		<i>% Volatile by Volume:</i> <1% Nil
<i>Evaporation Rate:</i> Slower than ether.		<i>pH:</i> N.A

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Section 10. Reactive Data

Stability: Stable **Hazardous Polymerization:** Will not occur

Hazardous Decomposition Products: Carbon Monoxide, various hydrocarbons.

Incompatibility: Strong oxidizers.

Conditions to Avoid: Do not weld or cut on "empty drums", vapors can cause fire, explosion or toxic fumes from residues. Do not pressurize or expose drums to heat or open flames. Keep containers closed and drum closures in place.

Section 11. Toxicological Information

No data.

Section 12. Ecological Information

No data

Section 13: Disposal Consideration

If disposed of as supplied dispose of waste product by recycling with other similar petroleum hydrocarbon materials. If product has been spilled, used, or contaminated dispose of in accordance with all Federal, State and regional guidelines. Do not land fill without checking all applicable regulations.

Section 14. Transportation Information

DOT Classification as follows:

Oil, Petroleum, N.O.S.

(Not regulated)

UN 9277

Not Hazardous.

Air shipping information:

NFPA Class IIIB material – Combustible liquid. Flash Point above 200° F

Section 15. Regulatory Information

TSCA Information: All components of this product are listed.

SARA TITLE III: Under the provisions of Title III, sections 311/312 of the Superfund Amendments and Re authorizations Act.

Hazardous Categories: This product is classified into the following hazard categories: Not Hazardous.

Transportation: When shipped in bulk, ship as non hazardous, UN9277 or UN1270, Oil, petroleum, n.o.s.

Section 16. Other Information

MSDS Revision statement: All sections revised.

This information was derived from current data and the works and opinions of persons believed to be qualified experts. And to the best of our knowledge, is believed to be accurate and reliable as of the date compiled. However, no guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in the respect to the suitability of the product for particular uses that are beyond our control.

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End of Material Safety Data Sheet