



Material Safety Data Sheet

SECTION I: Product and Company Identity:

TRADE NAME (AS LABELED): **TS-304 Moly SAE 20W40 Machine Oil**
 MANUFACTURER'S NAME: T.S. Moly-Lubricants, Inc.
 MANUFACTURER'S ADDRESS: 6205 Brookhill #6
 Houston TX 77087
 EMERGENCY PHONE: 713/671-2676 Fax: 713/671-9417
 BUSINESS PHONE: 713/671-2676 Fax: 713/671-9417
 REVIEWED: August 4, 2005
 REVIEWED BY: Jo Nell Salling

SECTION II: Composition /Information on Ingredients

The criteria for listing components in the composition section are as follows: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater; nonhazardous components are not listed as being proprietary information. Refer to Section IX for regulatory information.

Ingredient	SARA	CAS No.	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)	% Optional
Severely refined petroleum oil	no	64742-52-7 or 64742-65-0 (mixture)	5, mist	TWA: 5; STEL: 10, mist	proprietary
Zinc alkylidithiophosphate	no	68649-42-3	TWA : 5, mist	TWA: 5; STEL: 10, mist	proprietary

SECTION III: Hazards Identification

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: Overexposure to this product may cause mild skin irritation, moderate eye irritation, and possible gastric distress if ingested.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known or reported.

CARCINOGENICITY: NTP? No IARC Monographs? No OSHA regulated? No

In accordance with the current OSHA Hazard Communication Standard criteria, this product is not known or reported to be carcinogenic by reference sources including: IARC, NTP, and OSHA.

HAZARDOUS MATERIAL INFORMATION SYSTEM			
HEALTH (BLUE)		1	
FLAMMABILITY (RED)		1	
REACTIVITY (YELLOW)		0	
PROTECTIVE EQUIPMENT (WHITE)		B	
EYES	RESPIRATORY	HANDS	BODY
X		X	
See Section 8			

SECTION IV: First Aid Measures

EYES: Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

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SKIN: Remove any contaminated clothing and wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

INGESTION: If person is conscious and can swallow, give two glasses of water but do not induce vomiting. If vomiting occurs, give fluids again. Call a physician immediately. **DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.**

INHALATION: If overcome from vapor, remove from exposure and call physician. If necessary, provide respiratory support.

SECTION V: Fire Fighting Measures

Flash Point: >400 °F. Method: COC Flammable Limits: NDA

Extinguishing Media: Carbon dioxide, dry chemical, alcohol foam, water spray. Water can be used to cool and protect exposed material.

Special Fire Fighting Procedures: Materials must be preheated to burn. Do not enter confined areas without full protective equipment, including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

Unusual Fire and Explosion Hazards: Avoid fumes of burning product.

SECTION VI: Accidental Release Measures

CLEAN WATER ACT/OIL POLLUTION ACT: This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges or spills into or leading to surface waters that cause a sheen must be reported to the National Response Center (1/800-424-8802).

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Product may burn but is not readily ignitable. Use best engineering practices when attempting cleanup of a large spill. All recovered material should be packaged, labeled, transported and disposed of or reclaimed in accordance with governmental regulations regarding air pollution, water pollution or health.

Large spills: Wear respirator and protective clothing as appropriate. Stop source of leak if possible. Prevent entry into water sources. Dike and contain spill. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an inert absorbent such as clay, sand or other suitable materials. Store and dispose of properly. Where feasible and appropriate, remove contaminated soil.

Small spills: Soak up spill with an inert absorbent such as clay, sand or other suitable material. Store in a closed container and dispose of properly.

CAUTION: Improper disposal or reuse of the empty container may be hazardous and illegal. Cutting or welding of empty containers may cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place. Refer to applicable governmental regulations.

SECTION VII: Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in cool dry area in original or equivalent container in accordance with all applicable regulations. Do not apply high heat or flame to container.

OTHER PRECAUTIONS: Good personal hygiene practices should always be followed.

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SECTION VIII: Exposure Controls/Personal Protection

VENTILATION AND ENGINEERING CONTROLS: No special ventilation is usually necessary.

RESPIRATORY PROTECTION: Respiratory protection is not expected to be needed. If exposure is expected to exceed occupational exposure limits, use a NOSH-approved respirator to prevent overexposure. In accordance with 29 CFR 1910.134, use either an atmosphere supplying respirator or an air-purifying respirator for organic vapors and particulates.

EYE PROTECTION: Safety goggles recommended.

HAND PROTECTION: Wear oil impervious type, such as neoprene, nitrile, polyvinylchloride, to minimize skin contact.

BODY PROTECTION: Use body protection as needed for task.

SECTION IX: Physical and Chemical Properties

Boiling Point: NDA

Specific Gravity: 0.890

Vapor Pressure: NDA

Evaporation Rate: NDA

Vapor Density: NDA

Solubility in Water: Negligible

Viscosity @ 40C: 50 cSt

Appearance and Odor: Gray fluid with petroleum odor

SECTION X: Stability and Reactivity

STABILITY: Unstable: No Stable: Yes

CONDITIONS TO AVOID/INCOMPATIBILITY: High heat; oxidizing materials such as liquid chlorine, concentrated oxygen, etc.

POLYMERIZATION: May occur: No Will not occur: Yes

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: carbon monoxide, carbon dioxide, fumes and smoke.

SECTION XI: Toxicological Information: No data available.

SECTION XII: Ecological Information: No data available.

SECTION XIII: Disposal Considerations

WASTE DISPOSAL METHODS: Dispose of waste according to all applicable regulations.

SECTION XIV: Transport Information: This material is not regulated as a DOT hazardous material.

SECTION XV: Regulatory Information: TOXIC SUBSTANCES CONTROL ACT (TSCA): All components are on the TSCA inventory or are not required to be listed on the TSCA inventory.

SECTION XVI: Other Information: Disclaimer: Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of this product for particular uses are beyond our control. Users should make their own investigation to determine the suitability of the information or products for their respective purposes.