



MOOREFLO WAY LUBE SDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name on Label: MOOREFLO WAY LUBE OIL
 Other Identification: VISCOSITY 68, 220
 Use of the substance/mixture: LUBRICATING OIL
 Company name : MOORE OIL COMPANY
 4033 WEST CUSTER AVE
 MILWAUKEE, WI 53209 (414) 462-3200
 Emergency number: (800) 424-9300 - CHEMTREC

SECTION 2: Hazards identification

Classification of the substance or mixture: Petroleum-Hydrocarbon-oil
 Label elements: NONE
 Other hazards: N/A
 Unknown acute toxicity (GHS-US): N/A

SECTION 3: Composition/information on ingredients

WT%*	NAME	OSHA PEL				ACGIH TLV®			
		SYNONYM	CAS NO.	TWA	STEL	TWA	STEL	LDa	LCb
mg/m ³				mg/m ³		mg/m ³			
17-99	Residual oils (petroleum), solvent-dewaxed	Bright stock	64742-62-7	5 ^c	N/A	5 ^c	10 ^{c,d}	>10000 (>2000 mg/kg) ^e	N/A
27-48	Lubricating oils, petroleum, hydrotreated spent oil	Hydrotreated paraffinic base oil	64742-62-7	5 ^c	N/A	5 ^c	10 ^{c,d}	N/A (>2000 mg/kg) ^e	N/A
1 to 2	Additive**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SECTION 4: First aid measures

INHALATION Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if breathing difficulty persists.
EYE CONTACT If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. If symptoms persist get medical attention.
SKIN CONTACT Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists. If product is injected under pressure into or



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under the skin, or into any part of the body, regardless of the appearance of the wound or its size, a physician should immediately evaluate the individual as a medical emergency.

INGESTION If ingested, dilute stomach contents with two glasses of milk or water. (NOTE: DO NOT give anything by mouth to an unconscious person) DO NOT induce vomiting! Aspiration of product into lungs may cause pneumonitis which can be a dangerous condition. If vomiting occurs keep airway clear. If symptoms persist seek medical assistance.

NOTE TO PHYSICIANS:

Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident.

SECTION 5: Fire-fighting measures

FLASH POINT (METHOD USED): 300oF (minimum) Cleveland Open Cup

FLAMMABLE LIMITS IN AIR: Lower: Not Available Upper: Not Available

AUTOIGNITION TEMPERATURE: Not Available.

CONDITIONS OF FLAMMABILITY: Heat, sparks, flame or other sources of ignition. Vapors may travel a considerable distance where they can ignite, flashback or explode.

FIRE FIGHTING INSTRUCTIONS: Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

EXTINGUISHING MEDIA: In accordance with NFPA guidance, dry Chemical, foam or CO2 fire extinguishers are all acceptable. Not that while water fog extinguishers are also acceptable, DO NOT apply a direct stream of water onto burning product because it may cause spreading and increase fire intensity.

HAZARD RATING	NFPA / HMIS CLASSIFICATION	
0= LEAST	HEALTH HAZARD (BLUE)	0
1= SLIGHT	FIRE HAZARD (RED)	1
2= MODERATE	REACTIVITY (YELLOW)	0
3= HIGH	PPE	X

SECTION 6: Accidental release measures

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal

SECTION 7: Handling and storage

HANDLING: Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. When transferring product, storage tanks, tanker trucks, and rail tank cars should be grounded and bonded. These products have a low vapor pressure and are not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating these products, do not breathe vapor or mist Use in a well-ventilated area. Avoid contact with eyes, skin, clothing and shoes.

SHIPPING AND STORING:

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain residue and can be dangerous.



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SECTION 8: Exposure controls/personal protection

ENGINEERING CONTROLS:

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: No respiratory protection is normally required. Use NIOSH-certified, air-purifying respirators with combination P- or R- series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits providing that the respirator's maximum use concentration is not exceeded. Consult an Industrial Hygienist for respirator selection guidance. Protection provided by air-purifying respirators is limited.

EYE PROTECTION: Wearing chemical goggles is recommended. Contact lens use is not recommended without eye protection.

SKIN PROTECTION: No skin protection is normally required. Where prolonged or repeated skin contact is likely, wear neoprene, nitrile (4 mil minimum) PVC (polyvinyl chloride) or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended. When products are heated and skin contact is likely, wear heat-insulating gloves, boots, and other protective clothing. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant face shield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

PERSONAL HYGIENE: Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard leather articles, such as shoes, saturated with these products.

OTHER PROTECTIVE EQUIPMENT: Where spills and splashes are likely, facilities storing or using these products should be equipped with emergency eyewash equipped with clean water in the immediate work area.

SECTION 9: Physical and chemical properties

MINERAL OIL

APPEARANCE & ODOR: Liquid, amber, petroleum odor.

ODOR THRESHOLD: Not available.

MOLECULAR WEIGHT: Not applicable

SPECIFIC GRAVITY: 0.88 (water=1) (approximately)

DENSITY: 7.3LB/US gal (880g/l) (approximately)

VAPOR DENSITY: Not available.

VAPOR PRESSURE: less than 0.1 mm Hg at 68o F (20o C)

BOILING POINT: 475oF (246oC) (minimum)

FREEZING/MELTING POINT: Not available [pour point 16°F (-9°C) (maximum)]

pH: Not applicable

EVAPORATION RATE: Not available.

SOLUBILITY IN WATER: Insoluble.

SECTION 10: Stability and reactivity

Reactivity: Polymerization is not known to occur under normal temperatures and pressures.

Chemical stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions: Not reactive with water. . Avoid heat, sparks, or flame.

Conditions to avoid (e.g., static discharge, shock, or vibration): Avoid heat, sparks, or flame.

Incompatible materials: Avoid oxidizing agents, acids, or reactive halogens.



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Hazardous decomposition products: Thermal decomposition products are dependant on combustion conditions. A complex mixture of airborne solid, liquid particulates and gasses may evolve when the material burns. Combustion by products may include: oxides of carbon, incompletely burned hydrocarbons as fumes and smoke.

SECTION 11: Toxicological information

SENSITIZATION: Based on best current information, there is no known human sensitization associated with these products.

MUTAGENICITY: Experimental evidence suggests that these products do not cause mutagenesis.

CARCINOGENICITY: Based on best current information, for the components listed in Section 2, there is no known carcinogenicity as regulated by OSHA; as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1 Group 2A, or Group 2B agents; or as listed by NTP as either known carcinogens or substances for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals. Also see Section 13: California

REPRODUCTIVE TOXICITY: Based on best current information, there is no known reproductive toxicity associated with these products. Also see Section 13: California

TERATOGENICITY: Based on best current information, there is no known reproductive toxicity associated with these products.

TOXICOLOGICALLY SYNERGISTIC PRODUCT(S): Based on best current information, there is no known reproductive toxicity associated with these products.

SECTION 12: Ecological information

ECOTOXICITY: Not available.

OCTANOL/WATER PARTITION COEFFICIENT: Not available.

VOLATILE ORGANIC COMPOUNDS: Not available.

PARTITION COEFFICIENT: Not Available

VOLATILE ORGANIC 100 WT% ;7.3lb/us GAL;880G/L (approximately)

COMPOUNDS: As per 40 CFR Part 51.100(s).

SECTION 13: Disposal considerations

DISPOSAL: Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact MOES regarding proper recycling or disposal.

USEPA WASTE CODES: These products, if discarded, are not expected to be a characteristic or listed hazardous waste. If recycled in the USA, they must be managed in accordance with 40 CFR Part 279. Processing, use, or contamination by user may change the waste code(s) applicable to the disposal of these products. It is the responsibility of the product user or owner to determine at time of disposal, whether the product is regulated as a hazardous waste.

SECTION 14: Transport information

UN number: NONE

UN proper shipping name: N/A

Transport hazard class(es): NONE

Packing group, if applicable: NONE

Environmental hazards (e.g., Marine pollutant (Yes/No)): NO

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): N/A



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Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises: NONE

SECTION 15: Regulatory information

SARA SECTIONS

Based on the ingredients listed in SECTION 2, these products do not 302, 304 contain any “extremely hazardous substances” listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA SECTION 313

These products do not contain “toxic” chemicals subject to the requirements 313 of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

SARA SEC

These products pose the following health hazards as defined in 40 CFR 311 AND 312 Part 370 and are subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): Immediate (Acute) Health Hazard Delayed (Chronic) Health Hazard

CERCLA

Based on the ingredients listed in SECTION 2, these products do not contain any “hazardous substances” listed pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

TSCA ALL THE COMPONENTS OF THESE PRODUCTS ARE LISTED ON THE TSCA INVENTORY.

SECTION 16: Other information

The information in this Safety Sheet was obtained from sources which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use and disposal of the product are beyond Our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This safety sheet was prepared and is to be used only for this product. If the product is used as a component in another product, this safety sheet information may not be applicable.