



# SAW GUIDE OIL SDS

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

Product Name on Label: MOOREFLO SAW GUIDE OIL 32

Other Identification: NONE

Use of the substance/mixture: CUTTING LUBRICANT

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

**NFPA RATING (SCALE 0-4)** Health = 1 Flammability = 1 Reactivity = 0

**EMERGENCY OVERVIEW:** Do not ingest. Do not inhale dust. Use adequate ventilation and wash after handling.

**GHS CLASSIFICATION:**

### Health

Eye Irritation: Cat. 2B

Skin Irritation: Cat. 3

### Environmental

Acute Aquatic Toxicity: Not established

Chronic Aquatic Toxicity: Not established

### **GHS LABEL ELEMENTS:**

**Symbol(s):** No Symbol

**Signal Word:** Warning

**Hazard Statements** May cause skin, eye, and respiratory irritation.

### **Precautionary Statements**

Wear protective gloves/protective clothing/eye protection/face protection IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or you feel unwell: Call a doctor/physician.

## SECTION 3: Composition/information on ingredients

### OSHA PEL

### ACGIH TLV

<u>WT%</u>	<u>NAME</u>	<u>CAS NO.</u>	<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>	<u>LDa</u>	<u>LCb</u>
			mg/m <sup>3</sup>		mg/m <sup>3</sup>	mg/m <sup>3</sup>		
25 to 98*	Lubricating oils Petroleum, hydrotreated spent	64742-58-1	5 <sup>c</sup>	N/A	5 <sup>c</sup>	10 <sup>c,d</sup>	N/A	N/A (>2000mg/kg) <sup>d</sup>
1 to 2	Diisotridecyl adipate	26401-35-4	N/A	N/A	N/A	N/A	N/A	N/A
0.5 to 1	Fatty acids, tall-oil, tetraesters with pentaerythritol	68334-18-9	N/A	N/A	N/A	N/A	N/A	N/A
0.5 to 1	Fatty acids, tall-oil, esters with pentaerythritol	68188-27-2	N/A	N/A	N/A	N/A	N/A	N/A



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0 to 75* Bright stock solvent-dewaxed	Residual oils	64742-62-7	5 <sup>c</sup>	N/A	5 <sup>c</sup>	10 <sup>c,d</sup>	>10000 (>2000) <sup>d</sup>	N/A
0 to 8*	Viscosity index Improver	N/A**	N/A	N/A	N/A	N/A	N/A	N/A
0 to 1*	Zinc Dialkyldithiophosphates***	N/A**	N/A	N/A	N/A	N/A	N/A	N/A
< to 0.5 Copolymer	Methacrylate	N/A**	N/A	N/A	N/A	N/A	N/A	N/A

\*Even though the concentration range does not fall under the ranges prescribed by WHMIS, this is the actual range which varies with each batch of the product.

\*\*Supplier advises that this is a trade secret. N/A= Not Available

<sup>a</sup>Oral-Rat LD 50 (mg/kg) <sup>b</sup>Inhalation-Rat LC 50 <sup>c</sup>Based on Oil mist, mineral <sup>d</sup>Skin-Rabbit LD 50

## SECTION 4: First aid measures

**INHALATION** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. 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 30 minutes. Get medical attention.

**SKIN CONTACT** Remove affected clothing and shoes. Wash affected area with soap and water for approximately 30 minutes. Get medical attention if irritation or pain develops or persists. If product is injected under pressure into or 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.

**SWALLOWING** Do not induce vomiting. Get immediate medical attention. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything to an unconscious person by the mouth.

**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):** 356oF (180oC) (minimum) Cleveland Open Cup

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

**HAZARDOUS COMBUSTION PRODUCTS:** Decomposition and combustion materials may be toxic. Burning may produce hydrogen sulfide, sulfides, alkyl mercaptans, aldehydes, nitrogen oxides, phosphorus oxides, sulfur oxides, nitrogen, carbon monoxide, and unidentified organic compounds.

**AUTOIGNITION TEMPERATURE:** Not Available.

**CONDITIONS OF FLAMMABILITY:** Heat, sparks or flame. Products may burn, but do not ignite readily.

**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.

**FIRE AND EXPLOSION HAZARDS:** Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Products are not sensitive to mechanical impact or static discharge.

**HAZARD RATING**

0= LEAST

**NFPA / HMIS CLASSIFICATION**

HEALTH HAZARD (BLUE) 1



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1= SLIGHT  
2= MODERATE  
3= HIGH  
4= EXTREME

FIRE HAZARD (RED) 1  
REACTIVITY (YELLOW) 0  
SPECIFIC HAZARD (WHITE) -

## SECTION 6: Accidental release measures

**IF MATERIAL IS RELEASED OR SPILLED:** Contain spill and transfer to suitable containers. Stop leak if you can do it without risk.

**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. If material is too viscous for pumping scrape it up with shovels into suitable containers for recycle or disposal.

**Large Spills:** Dike far ahead of spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

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 as specified in Section 9: Exposure Controls/Personal Protection. 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

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities: Observe all federal, state and local regulations when storing or disposing of this substance. Keep away from incompatible substances. 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. Use good engineering practices to establish good ventilation. Avoid contact with skin, eyes and clothing. Wear suitable protective equipment to protect from contact. Avoid breathing mist or vapors. Wash skin thoroughly after handling. Store inn closed containers away from extreme heat, sparks, open flame or oxidizing materials

## SECTION 8: Exposure controls/personal protection

Control parameters: 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.

Exposure controls

**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



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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. Wear safety goggles to prevent eye contact with substance. Under certain circumstances where airborne concentration are expected to exceed exposure limits, select a NIOSH/MSHA approved respirator based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations

**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. Impervious apron if needed to avoid prolonged or repeated skin contact.

**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. Good general ventilation and/or local exhaust ventilation at the point of generation is recommended.

## SECTION 9: Physical and chemical properties

PHYSICAL STATE, APPEARANCE & ODOR:	Liquid, amber, petroleum odor
ODOR THRESHOLD:	Not available
MOLECULAR WEIGHT:	Not applicable
SPECIFIC GRAVITY: .	88(water=1) (approximately)
DENSITY:	7.3 LB/US gal (880 g/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 21oF (6oC)(max)]
pH:	Not applicable
EVAPORATION RATE:	Not available
SOLUBILITY IN WATER:	Insoluble
FLASH POINT:	356oF (180oC) (min) Cleveland Open Cup
FLAMMABLE LIMITS IN AIR:	
LOWER: Not available	UPPER: Not available
AUTOIGNITION TEMPERATURE: Not available.	



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## SECTION 10: Stability and reactivity

**Reactivity:** Polymerization is not known to occur under normal temperatures and pressures. Not reactive with water.

**Chemical stability:** Stable under normal temperatures and pressures.

**Possibility of hazardous reactions:** Avoid oxidizing agents, acids, or reactive halogens

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

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

**Hazardous decomposition products:** None under normal temperatures and pressures. Exposure to high temperatures, such as those associated with fires, causes product decomposition, resulting in the release of carbon monoxide, carbon dioxide, and other decomposition products.

## SECTION 11: Toxicological information

### POTENTIAL ACUTE HEALTH EFFECTS:

**Eye:** Eye contact may result in irritation and redness.

**Skin:** Short term contact with skin is unlikely to cause problems. Excessive or prolonged and repeated contact and poor hygiene conditions may result in dryness, dermatitis, erythema, oil acne, cracking and defatting of the skin.

**Ingestion:** May result in nausea or stomach discomfort.

**Inhalation:** Inhalation of vapors or mist may be irritating to respiratory passages. Target Organ for mineral oil mist is lungs. Prolonged exposure may result in dizziness and nausea.

**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.

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

**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

**Eco-toxicity (aquatic and terrestrial, where available):** N/A

**Persistence and degradability:** N/A

**Bio-accumulative potential:** N/A

**Mobility in soil:** N/A

**Other adverse effects (such as hazardous to the ozone layer):** N/A

## 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 Safety-Kleen regarding proper recycling or disposal.



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## 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.

## 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

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: N/A

## SECTION 15: Regulatory information

### SARA SECTIONS 302, 304

BASED ON THE INGREDIENTS LISTED IN SECTION II, THESE PRODUCTS DO NOT CONTAIN ANY "EXTREMELY HAZARDOUS SUBSTANCES" LISTED PURSUANT TO 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 SECTIONS 311 AND 312

THESE PRODUCTS POSE THE FOLLOWING HEALTH HAZARDS AS DEFINED IN 40 CFR 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

### SARA SECTION 313

THESE PRODUCTS CONTAIN A "TOXIC" CHEMICAL SUBJECT TO THE REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986(SARA)AND 40 CFR PART 372.

### MATERIAL

Zinc dialkyldithiophos

### CAS NO.

N.Av.

### CERCLA

BASED ON THE INGREDIENTS LISTED IN SECTION II, 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

**TSCA** ALL THE COMPONENTS OF THESE PRODUCTS ARE LISTED ON, OR ARE EXEMPTED 75- UCTS) ANTHRACENE

### CALIFORNIA

THESE PRODUCTS MAY CONTAIN DETECTABLE AMOUNTS OF ACETALDEHYDE CAS 7440-38-2, BENZENE CAS 71-43-2, 1, 3-BUTADIENE CAS 106-99-0, CADMIUM CAS 7440-43-9, AND LEAD CAS 7439-92-1 FROM ADDITIVES. THESE PROD MAY CONTAIN DETECTABLE AMOUNTS OF BENZO (A)ANTHRACENE CAS 56-55-3, BENZO(K)FLUORANTHENE CAS 207-08-9, BENZO(A)PYRENE CAS 50-32-8, BENZO(B)FLUORANTHENE CAS 205-99-2, CHRYSENE CAS 218-0 DIBENZ(A,HCAS 53-70- 3, AND INDENO(1,2,3-CD) PYRENE CAS 193-39-5.



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**WARNING:** THESE CHEMICALS ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. OUR TESTING OF THESE PRODUCTS INDICATES THAT THESE CHEMICALS ARE NOT ALWAYS DETECTABLE. THESE PRODUCTS MAY CONTAIN DETECTABLE AMOUNTS OF ARSENIC CAS 7440-38-2, BENZENE CAS 71-43-2, CADMIUM CAS 7440-43-9, AND LEAD CAS 7439-92-1 FROM ADDITIVES.

**WARNING:** THESE CHEMICALS ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

## **CANADIAN REGULATIONS**

THESE PRODUCTS HAVE BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

**WHIMS** NOT REGULATED.

## **CANADIAN ENVIRONMENTAL PROTECTION ACT**

ALL THE COMPONENTS OF THESE PRODUCTS ARE LISTED ON, OR ARE EXEMPTED FROM THE REQUIREMENT TO BE LISTED ON, THE CANADIAN DOMESTIC SUBSTANCES LIST (DSL).

## **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.