



# Material Safety Data Sheet

Revision Date: 2009-01-07 11:37:39

## I. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** MAG 1 AW HYDRAULIC OIL ISO 46 4/1GL  
**Product Code:** MG42464P  
  
**Emergency Phone:** (800) 424-9300 (202) 483-7616 (CHEMTREC)  
**Poison Control Center:** (800) 222-1222  
**Company:** Warren Distribution, Inc.  
 727 S. 13th St.  
 Omaha, NE 68102  
**Information Phone:** (800) 825-1235 (402) 341-9397  
**Revision Number:** 4

## II. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #	OSHA Exposure Limits
Heavy hydrotreated naphthenic distillates	30 - 60	64742-52-5	No PEL established
Distillates, hydrotreated heavy paraffinic	15 - 40	64742-54-7	No PEL established

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

## III. HAZARDS IDENTIFICATION

**Medical Conditions Aggravated by Exposure:** Personnel with pre-existing skin disorders should avoid contact with this product.

### Immediate (Acute) Health Effects by Route of Exposure:

**Inhalation Irritation:** Inhalation of vapors (generated at high temperatures only) or oil mist may cause mild irritation of the nose, throat, and respiratory tract.  
**Skin Contact:** Lubricating oils are generally considered no more than minimally irritating to the skin. May cause skin irritation.  
**Eye Contact:** Lubricating oils are generally considered no more than minimally irritating to the eyes. May cause slight irritation of the eyes. Can cause irritation.  
**Ingestion Irritation:** Although this product has a low order of acute oral toxicity, aspiration of minute amounts into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.  
**Ingestion Toxicity:** Lubricating oils are generally no more than slightly toxic if swallowed.

### Long-Term (Chronic) Health Effects:

**Carcinogenicity:** Not a carcinogen according to NTP, IARC, or OSHA.  
**Reproductive and Developmental Toxicity:** No data available to indicate product or any components present at greater than 0.1% may cause birth defects.  
**Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.  
**Skin Contact:** Prolonged and repeated contact may result in defatting and drying of the skin that may cause various skin disorders such as dermatitis, folliculitis, or oil acne. Other adverse effects not expected from brief skin contact.

### HMIS Ratings:

**Health:** 1  
**Flammability:** 1  
**Reactivity:** 0  
**PPE:** B  
 0 - Least      1 - Slight      2 - Moderate      3 - High      4 - Extreme



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## IV. FIRST-AID MEASURES

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- Inhalation:** Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available. If overexposed to oil mist, remove from exposure until excessive oil mist condition subsides.
- Eyes:** Use eye wash to remove a chemical from the eye. Flush the affected eye for at least fifteen minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical attention if irritation persists.
- Skin Contact:** In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Launder or dry-clean clothing before reuse. 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. Prolonged or repeated skin contact may cause skin irritation.
- Ingestion:** Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this MSDS. No hazard expected under normal industrial use. If a large quantity is swallowed, seek medical attention. Do not induce vomiting.
- Notes to Doctor:** Aspiration during swallowing or vomiting may severely damage the lungs.

## V. FIRE FIGHTING MEASURES

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### Flammability Summary:

### **Extinguishing Media:**

Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do Not direct a stream of water into the hot burning liquid. Use water spray, dry chemical, foam or carbon dioxide to extinguish the fire. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

### **Fire and/or Explosion Hazards:**

Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire. Slightly combustible. OSHA/NFPA Class IIIB Combustible Liquid. If heated above its flash point will release flammable vapors which can burn in the open or be explosive in confined spaces if exposed to ignition source. Mists or sprays may be flammable below oils normal flash point. Keep away from extreme heat or open flame.

### **Fire Fighting Methods and Protection:**

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.

### **Hazardous Combustion Products:**

Carbon dioxide, Carbon monoxide

### **Flash Point:**

deg. C, [ deg. F ]

## VI. ACCIDENTAL RELEASE MEASURES

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**Personal Precautions and Equipment:** No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section VIII of this MSDS

**Methods for Clean-up:** Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

## VII. HANDLING AND STORAGE

**Handling Technical Measures and Precautions:** Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Do not use gasoline, solvents, kerosene, or harsh abrasive skin cleaners for washing exposed skin areas. Take a shower after work if general contact occurs. Remove oil-soaked clothing and launder before reuse. Launder or discard contaminated shoes and leather gloves.

**Storage Technical Measures and Conditions:** Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Do not expose to extreme temperatures or flames.

## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Measures:** No exposure limits exist for the constituents of this product. No engineering controls are likely to be required to maintain operator comfort under normal conditions of use.

**Respiratory Protection:** No respiratory protection required under normal conditions of use. If ventilation is not sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must be provided.

**Eye Protection:** Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** Neoprene Polyvinyl chloride; neoprene; nitrile; polyvinyl alcohol; viton.

### Control Parameters:

Chemical Name	ACGIH TLV-TWA	ACGIH STEL	IDLH
Heavy hydrotreated naphthenic distillates	No TLV		ND
Distillates, hydrotreated heavy paraffinic	No TLV		ND

OSHA PEL TWA for oil mist is 5mg/m<sup>3</sup>, ACGIH TLV TWA for oil mist is 5mg/m<sup>3</sup>, ACGIH STEL for oil mist is 10mg/m<sup>3</sup>

## IX. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>pH:</b>	ND
<b>Viscosity:</b>	763.2 SUS @ 100 F
<b>Solubility in Water:</b>	Insoluble
<b>Volatile Organic Chemicals:</b>	3



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Melting Point: -26 deg. C  
Specific Gravity: 0.888  
Bulk Density: 7.377  
Flash Point: deg. C

## X. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.  
**Conditions to Avoid:** Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.  
**Materials to Avoid/Chemical Incompatibility:** Strong oxidizing agents  
**Hazardous Decomposition Products:** Carbon monoxide, sulfur oxides, aldehydes, and other petroleum decomposition products in the case of incomplete combustion. Oxides of nitrogen, phosphorus, calcium, copper, magnesium, sodium, and hydrogen sulfide may also be present.  
Carbon monoxide

## XI. TOXICOLOGICAL INFORMATION

### Component Toxicology Data (NIOSH):

Chemical Name	CAS Number	LD50/LC50
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	Inhalation LC50 Rat: 2.18 mg/L/4H; Oral LD50 Rat:>5000 mg/kg; Dermal LD50 Rabbit:>2000 mg/kg
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	Inhalation LC50 Rat: 2.18 mg/L/4H; Oral LD50 Rat:>2000 mg/kg; Dermal LD50 Rabbit:>2000 mg/kg

## XII. ECOLOGICAL INFORMATION

**Overview:** Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.  
**Mobility:** No data  
**Persistence:** No data  
**Bioaccumulation:** No data  
**Degradability:** No data

## XIII. DISPOSAL CONSIDERATIONS

**Disposal of Packaging:** Recycle containers whenever possible.  
**Disposal Methods:** Dispose of according to Federal, State, Local, or Provincial regulations. Recycle used oil. DO NOT dispose of this product in drains or storm sewers. DO NOT dispose of this product in a landfill without prior solidification. Waste product should be recycled. Consider waste brokering.

## XIV. TRANSPORTATION INFORMATION

DOT & IMDG: NOT RESTRICTED

## XV. REGULATORY INFORMATION

**TSCA Status:** A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances.  
**NAFTA Tariff Code:** 2710.19.0000

Chemical Name	CAS #	Regulation	% Range
MAG 1 AW HYDRAULIC OIL ISO 46 4/1GL			



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Toluene	108-88-3	SARA 313	0.001- 0.01
Toluene	108-88-3	CA Prop 65 - Dev. toxicity	0.001- 0.01

### XVI. ADDITIONAL INFORMATION

**Disclaimer:** This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.