



## MATERIAL SAFETY DATA SHEET

### Magnus® "A" Artic

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Synonyms:** Industrial oil; Anti-wear hydraulic fluid  
**Formula:** Mixture  
**Chemical Family:** Mixture  
**CAS Number:** Mixture  
**SAP Code:** 1012836, 1012837  
**Product Code:** 81310  
**MSDS Number:** US405960  
**NFPA Ratings:** Health 0, Flammability 1, Reactivity 0  
**HMIS Ratings:** Flammability 1, Reactivity 0, Health 0  
**Intended Use(s):** Industrial Hydraulic Oil

The intended use of this product is indicated above, if any additional use is known please contact us at the Technical Information number listed below.

**Manufactured By:**  
 Phillips 66 Company  
 A Division of Phillips Petroleum Company  
 Bartlesville, Oklahoma 74004

**Phone Numbers**  
**Emergency:** (918) 661-8118  
**Technical Information:** (800) 766-0050  
**For Additional MSDSs:** (918) 661-5974

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Specification and CAS #	Weight % In Product	ACGIH TLV (TWA)	ACGIH Short Term Exposure Limit	ACGIH Ceiling Limits	ACGIH Skin Designation	OSHA Final PEL (TWA)	OSHA - Final PELs - Ceiling Limits	OSHA - Final PELs - Skin Notation
Proprietary	100	NE	NE	NE	NE	NE	NE	NE

See Section 8 for additional Exposure Limits.

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

Non-Hazardous. Pressure Injection. Lung Aspiration Hazard.

### Potential Acute Health Effects

**Eye Contact:** May cause mild irritation.

**Skin Contact:** May cause mild irritation with prolonged or repeated contact.

**Inhalation:** No acute effects expected due to low vapor pressure.

**Ingestion:** Do not ingest. If swallowed, may be aspirated resulting in inflammation and possible fluid accumulation in the lungs.

### **Subchronic and Chronic Effects:**

Prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as lung inflammation. This condition usually causes no symptoms.

**Aggravated Medical Conditions:** No Known Applicable Information

## **4. FIRST AID MEASURES**

**Eye Contact:** Flush eyes with running water. If irritation or adverse symptoms develop, seek medical attention.

**Skin Contact:** Wash skin with soap and water. If irritation or adverse symptoms develop, seek medical attention.

**Inhalation:** Remove from exposure. If illness or adverse symptoms develop, seek medical attention.

**Ingestion:** Do not induce vomiting. Seek immediate medical attention.

**Notes To Physician:** For injection injuries, immediate medical treatment is required. Physicians may call the emergency number (918) 661-8118.

Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

## **5. FIRE FIGHTING MEASURES**

**Flash Point:** > 200F (> 93C)

**FP Method:** COC

**Ignition Temperature:** Unknown

**Flammable Limits (% by Volume in Air)**

**Lower Explosive Limit -** Not Established

**Upper Explosive Limit -** Not Established

**Fire Extinguishing Media:** Dry chemical, foam or carbon dioxide (CO<sub>2</sub>), water

**Fire Fighting Procedures:** Evacuate area and fight fire from a safe distance. Shut off source, if possible. Use NIOSH approved self-contained breathing apparatus and other protective equipment and/or garments described in Section 8 if conditions warrant. Use water spray to cool nearby containers and structures exposed to fire.

**Fire and explosion hazards:** Can be made to burn (flash point greater than 200F).

## **6. ACCIDENTAL RELEASE MEASURES**

Sweep or gather up material and place in proper container for disposal or recovery.

## **7. HANDLING AND STORAGE**

Avoid contact with eyes, skin or clothing. Avoid breathing vapors, mist, fume or dust. Do not swallow. May be aspirated into lungs. Wash thoroughly after handling. Use with adequate ventilation. Wear protective equipment

and/or garments described in Section 8 if exposure conditions warrant. Launder contaminated clothing before reuse. Store in closed container. Store in well-ventilated area.

If pressure injected under the skin, can cause gangrene if not treated.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eye Protection:** Wear safety glasses.

**Respiratory Protection:** For concentrations exceeding an applicable exposure limit, use NIOSH approved air purifying respirator equipped with P95 filters, for particulate with time weighted average exposure limit not less than 0.5 mg/M3.

**Skin Protection:** Use gloves resistant to the material(s) contained in this product.

**Ventilation:** Use adequate ventilation to control concentrations below applicable exposure limits.

**Other Personal Protection:** Personal protection information shown in Section 8 is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

**Exposure Limits:** OSHA PEL and ACGIH TLV for oil mists is 5 mg/m<sup>3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Colorless to dark
<b>Odor:</b>	Mild
<b>Odor Threshold (ppm):</b>	Unknown
<b>Boiling Point:</b>	Not Established
<b>Melting/Freeze Point:</b>	Not Established
<b>Vapor Pressure:</b>	< 1 mm Hg @ 68F (20C)
<b>Vapor Density (Air=1):</b>	Not Established
<b>Specific Gravity @ 20 C (Water=1):</b>	0.89 @ 60F (16C)
<b>Percent Volatile by Volume:</b>	Unknown
<b>Evaporation Rate (Butyl Acetate=1):</b>	Not Established
<b>Water Solubility:</b>	Negligible
<b>Viscosity:</b>	13 cSt @ 104F (40C)

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Hazardous Polymerization:</b>	Will Not Occur
<b>Incompatibility (Materials to Avoid):</b>	Oxygen and strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Carbon oxides and various hydrocarbons are formed when burned.

## 11. TOXICOLOGICAL INFORMATION

### Other Health Effects:

Pressurized injection of product under the skin can lead to seriously inflamed tissue. If left untreated injury can become gangrenous.

Continuous skin contact with used motor oils has caused skin cancer in laboratory animals. Avoid prolonged skin contact with used motor oil.

These products may contain petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking or severe hydrotreating. None of the oils require a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

## 12. ECOLOGICAL INFORMATION

No data at this time.

## 13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORT INFORMATION

**DOT Shipping Description:** Not Regulated

**IMDG Shipping Description:** Not Regulated

**ICAO/IATA Proper Shipping Name:** Not Regulated

## 15. REGULATORY INFORMATION

### EPA SARA 311/312 (Title III Hazard Categories)

**Acute Health:** No

**Chronic Health:** No

**Fire Hazard:** No

**Pressure Hazard:** No

**Reactivity Hazard:** No

**Proprietary** 100

**Regulated Substance on TSCA Inventory:** Listed

**Canada - Domestic Substances List:** Listed

## 16. OTHER INFORMATION

### Revision Summary:

This Material Safety Data Sheet (MSDS) has been revised to conform with the American National Standards Institute (ANSI) 16 Section Format.

**Preparer:** Health, Environment and Safety Department

**Date Prepared:** 05/18/2001

**Supersedes:** 06/30/1993

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