General Pump
1174 Northland Drive Emergency 800-424-9300

 Mendota Heights, MN
 USA
 Information:
 651-454-6500

 55120
 Fax::
 651-454-8015

info@gpcompanies.com

### SECTION 1 CHEMICAL PRODUCT IDENTIFICATION

**Product:** General Pump Oil-AW-100

Synonyms/Other: Not Applicable

**Item Numbers:** 805-100214, 805-100216, 805-100219, 805-100295, 805-100379

805-100551, 805-100552, 805-100553

MSDS Number: 0447

Product Type: Hydraulic fluid
Preparation/Revision Date: 08/01/2002

SECTION 2	COMPOSITION INFORMATION					
INGREDIENTS	CAS#	%	OSHA TWA	OSHA STEL	ACGIH TWA	SKIN
Hydrotreated heavy paraffinic distillates* and/or	64742-54-7		5 mg/m³ (PEL)	10mg/m <sup>3</sup>	5mg/m³ (TLV)	NO
Solvent-dewaxed heavy paraffinic distillates*	64742-65-0		5 mg/m³ (PEL)	10mg/m <sup>3</sup>	5mg/m³ (TLV)	NO
Proprietary additives	Mixture					NO
Zinc alkyl dithiophosphate Comments: * Ex	68649-42-3 sposure limits not defi	<0.6 ned. Limi	 ts used are f	 or, "oil mist".		NO

All base oils, including additive carriers, contain <3.0% DMSO extractable Material

TWA - Time Weighted Average is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded.

STEL - Short Term Exposure Limit is the employee's 15-minute time weighted average exposure which shall not be exceeded at any time during a work day unless another time limit is specified.

### SECTION 3 HAZARDOUS IDENTIFICATION

**WARNING:** - MAY CAUSE EYE IRRITATION

- MAY CAUSE SKIN IRRITATION

**Eye contact:** Direct contact may cause irritation, redness, tearing and blurred vision.

**Skin contact:** Avoid prolonged skin contact. This product contains materials that may cause skin irritation. Prolonged or repeated contact may result in dermatitis (dryness,

chapping and reddening of skin).

Inhalation: Overexposure by inhalation of hot material may cause nonspecific discomfort,

such as nausea, headache, or weakness. Caution should be taken to prevent

aerosolization or misting of this product without proper respiratory protection.

Ingestion:

Do not ingest. Product is expected to be relatively non-toxic unless to

Do not ingest. Product is expected to be relatively non-toxic unless lung aspiration occurs. Aspiration is not expected with this material due to heavy viscosity. Should aspiration occur, may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage and may be fatal. Signs of lung involvement include increased respiratory rate, increased heart rate, and a bluish discolorization of the skin. Coughing, choking and gagging are often noted at the time of aspiration. This product has laxative properties and may result in

abdominal cramps and diarrhea.

Other: Not applicable.

### SECTION 4 FIRST AID MEASURES

Eye contact: Flush immediately with large amounts of water for at least 15 minutes. Eyelids

should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists. If material is hot, treat for thermal burns and take

GENERAL PUMP • MSDS Series 100 Oil • PAGE 1 of 6

victim to hospital immediately.

Skin contact: Remove contaminated clothing. Wash contaminated area thoroughly with soap

and water. If redness or irritation occurs, seek medical attention. If material is hot, submerge injured area in cold water. If victim is severely burned, remove

To a hospital immediately. Wash contaminated clothing before reuse.

Inhalation: If overcome by inhilation of hot vapors, remove to fresh air. Use oxygen if

> there is difficulty breathing or artificial respiration if breathing has stopped. Do not leave victim unattended. Seek immediate medical attention if necessary. Do not induce vomiting because of danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis. If spontaneous vomiting

occurs keep head below hips to prevent aspiration and monitor for breathing Gastric lavage should be performed only by qualified medical personnel. Keep affected person warm and at rest. Seek immediate

attention.

Other: Not applicable.

#### **SECTION 5** FIRE FIGHTING MEASURES

204° C (400°F) ASTM D-92 Flash point:

Flammable limits: Not determined. Extinguishing media: Use water spray, dry chemical, alcohol foam, all purpose AFFF or carbon

dioxide to extinguish fire.

Special firefighting procedures:

Ingestion:

Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect

personnel attempting to stop a leak.

Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible (safely). Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage tank due to fire.

Fire fighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

Unusual fire & explosion hazards:

Dense smoke may be generated while burning. Toxic fumes, gases or vapors may evolve on burning. Heavy flammable vapors may settle along ground level and low spots to create an invisible fire hazard. The vapors may extend to sources of ignition and flash back.

Byproducts of combustion:

Fires involving this product may release oxides of carbon, nitrogen, sulfur, phosphorous; reactive hydrocarbons and irritating vapors.

Autoignition

temperature: Not determined. **Explosion data:** Not determined. Other: Not applicable.

#### **ACCIDENTAL RELEASE MEASURES SECTION 6**

Spill control

procedures (land): Immediately turn off or isolate any source of ignition (pilot lights, electrical

equipment, flames, heaters, etc.). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spill, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers for disposal. If a large spill occurs notify

appropriate authorities.

Spill control

procedures (water): Remove from surface by skimming or with suitable absorbents. If a large spill

occurs notify appropriate authorities (normally the National Response Center or

GENERAL PUMP • MSDS Series 100 Oil • PAGE 2 of 6

Coast Guard).

Waste disposal

method: Most oil based products are incinerated, land-filled or reclaimed. All disosals

must comply with federal, state, and local regulations. The material, if spilled or discarded may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply for transporting this

material when spilled. See section 14.

Other: CAUTION - If spilled material is cleaned up using a regulated solvent, the

resulting waste mixture will be regulated.

#### SECTION 7 HANDLING AND STORAGE

Handling Procedures: Keep containers closed when not in use. Do not transfer to unmarked

containers. Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106 -- Flammable and Combustible Liquids. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld, or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

**Storage procedures:** Store containers away from heat, sparks, open flame, or oxidizing materials.

Additional information: No additional information.

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection: Applicable mainly to persons in repeated contact situations such as packaging

of product, service/maintenance, and cleanup/spill control personnel.

**Respiratory protection:** None required if airborne concentrations are maintained below threshold limits

listed on page one. Otherwise a respiratory protection program meeting OSHA 101,.134 and ANSI Z88.2 requirements must be followed. Where misting may occur, wear an MSHA/NIOSH approved (or equivalent) half-mask form

dust/mist purifying respirator.

Eye protection: Eye protection is strongly recommended. If material is handled such that it

could be splashed into the eyes, wear safety glasses with side shields or

vented/splash proof goggles (ANSI Z87.1 or approved equivalent).

**Hand protection:** Impervious gloves such as neoprene or nitrile rubber to avoid skin sensitization

and absorption.

Other protection: Use of an apron and overboots or chemically impervious materials such as

neoprene or nitrile rubber is recommended to avoid skin sensitization and absorption. If handling hot material use insulated protective equipment. Launder soiled clothes. Properly dispose of contaminated leather articles and

other materials which cannot be decontaminated.

Local control

measures: Use adequate ventilation when working with material in an enclosed area.

Mechanical methods such as fume hoods or area fans may be used to reduce localized vapor/mist areas. If vapor or mist is generated when the material is handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure. Eyewash stations and showers should be available in areas where this material

is used and stored.

Other: Consumption of food and drink should be avoided in work areas where product

is present. Always wash hands and face with soap and water before eating.,

drinking or smoking.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Vapor pressure:** 0.1 mm Hg at 20°C (68°F).

**API gravity:** 28.4° @ 60°F **Density:** 7.37 pounds/gallon

Specific gravity: 0.88

**Solubility:** Negligible in water, miscible in most petroleum solvents.

Percent volatile: Negligible. Vapor density(air=1): >1.

**Evaporation rate** 

(n-ButylAcetate=1): Negligible.

GENERAL PUMP • MSDS Series 100 Oil • PAGE 3 of 6

1174 Northland Drive • Mendota Heights, MN 55120 • Phone: 651.454.6500 • Fax: 651.454.8015

Odor: Mild, oily odor.

Appearance: Clear, red fluid.

Viscosity: 100cSt @ 40°C

Boiling point: >260°C (500°F) IBP.

Pour/Freeze point: Not determined.

Other: Not applicable.

SECTION 10 STABILITY AND REACTIVITY

**Stability:** Material is stable at room temperatures and pressure. **Conditions to avoid:** Avoid high temperatures and product contamination.

Incompatibility with

**other materials:** Avoid contact with acids and oxidizing materials.

Decomposition

products: Smoke, carbon monoxide and dioxide, and other aldehydes of incomplete

combustion. Oxides of carbon, nitrogen, sulfur, and phosphorous; reactive

hydrocarbons and irritating vapors.

**Hazardous** 

**polymerization:** Will not occur. **Other:** Not applicable.

SECTION 11 TOXICOLOGICAL INFORMATION

Oral toxicity: RATS: Practically non-toxic (LD50: greater than 2000 mg/kg). -- Based on

testing of similar products and/or the components.

Dermal toxicity: RABBITS: Practically non-toxic (LD50: greater than 2000 mg/kg). -- Based on

testing of similar products and/or the components.

Inhalation toxicity: On rare occasions, prolonged and repeated exposure to oil mist poses a risk of

pulmonary disease such a chronic lung inflammation. This condition is usually asymptomatic as a result of repeated small aspirations. Shortness of breath and cough are the most common symptoms. Based on data from similar materials.

**Dermal sensitization:** RABBITS: Practically non-irritating. (Primary Irritation Index: greater than 0.5

but less than 3). -- Based on testing of similar products and/or the components.

Chronic toxicity: Not determined.
Carcinogenicity: Not determined.
Mutagenicity: Not determined

Reproductive toxicity: Dermal exposure of pregnant rats to representative formulations did not cause

adverse affects in either the mothers or their offspring.

Other: These products 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). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to

humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

SECTION 12 ECOLOGICAL INFORMATION

Environmental toxicity: These materials are not expected to be toxic to aquatic organisms. Accidental

spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects. These products are expected to be inherently biodegradable. There is no

Environmental fate: These products are expected to be inherently evidence to suggest bioaccumulation will occur.

Other: Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste disposal: Under RCRA it is the responsibility of the user of the product to determine at the

time of disposal whether the product meets RCRA criteria for hazardous waste. This product unadulterated by other materials may be classified as a non-

GENERAL PUMP • MSDS Series 100 Oil • PAGE 4 of 6

regulated waste in some areas - but still needs to be disposed of at an approved facilities. Waste management should be in full compliance with federal, state,

and local laws.

**Disposal consideration**: Most used and non-use oils are incinerated by licensed burner facilities for heat

value, or reclaimed by oil recycling services. Look in a local telephone directory or internet for headings under 'Waste', 'Waste Services', 'Waste Disposal" for companies licensed to handle such material. Additional information can be obtained from local EPA, DNR, Sewer and Land-Fill sites. Unused, packaged fluids may be donated to other companies or charities (fluids MUST be unused). The transportation, storage, treatment and disposal of RCRA waste material

must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can only occur in properly permitted facilities. Check state and local

regulations for any additional requirements as these may be more restrictive than federal laws and regulations. chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Disposal of this material must be conducted in compliance with all federal, state, and local

regulations.

#### **SECTION 14**

Other:

#### STABILITY AND REACTIVITY

**U.S. DOT shipping** 

description:

n .

Not regulated by DOT.

U.S. DOT identification

number:

Not regulated by DOT

U.S. DOT hazard
classification:
Packaging class:
Other:
Not applicable.
Not applicable.

#### **SECTION 15**

TSCA:

#### REGULATORY INFORMATION

Clean water act/oil pollution act:

Under section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Control Act of 1990, this material is considered an oil. Any spill or discharges that produce a visible sheen or film on surface of water, or in waterways, ditches, or sewers leading to surface water must be reported. Contact the National Response Center at 800-424-8802.

This product contains zinc, a Clean Water Act Priority Pollutant. All components of this material are listed in the U.S. TSCA Inventory.

Other TSCA: Not applicable.

**SARA Title III:** Section 302/304 extremely hazardous substances:

None.

Section 311, 312 hazard categorization:

Acute (immediate health effects): NO
Chronic (delayed health effects): NO
Fire (hazard): NO
Reactivity: NO
Pressure (sudden release hazard): NO

Section 313 toxic chemicals: Zinc alkyl dithiophosphate

(CAS 68649-42-3) <0.6% wt. Zinc - elemental (CAS 7440-66-6) <0.1% wt.

**CERCLA:** For stationary/moving sources - reportable quantity (due to):

Exempt due to petroleum exclusion.

Other: A release of this product, as supplied, is exempt from reporting under the

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) by the petroleum exclusion. However, releases may be reportable to the National Response Center under the Clean Water Act, 33 U.S.C. 1321(b)(3) and (5) - see head of section 15. Failure to report may result in

GENERAL PUMP • MSDS Series 100 Oil • PAGE 5 of 6

substantial civil and criminal penalties.

Recommend contacting the local authorities in the event of any type of spill to determine local reporting requirements and also to aid in the cleanup.

Zinc appears on the following State Regulatory Lists: Pennsylvania Environmental Hazard.

SECTION 16	OTHER INFORMATI	ON			
	NFPA 704	NPCA-HMIS	KEY		
HEALTH:	1	1	0 = Minimal		
FIRE:	1	1	1 = Slight		
REACTIVITY:	0	0	2 = Moderate		
SPECIFIC HAZARD:	NONE	N/A	3+ Serious		
PROTECTION INDEX:	N/A	В	4 = Severe		
Precautionary labels:  External information:	- MAY CAUSE EYE IRRITATION - MAY CAUSE SKIN IRRITATION  This product may be formulated in part with components purchased from other				
	companies. In many instances, especially when proprietary or trade secret materials are used, Lube-Tech must rely upon information provided by these materials manufacturers or distributors.				
Creation date: File: Version:	8/01/2002 General Pump Oil AW-10 III	00 (0448)			

INFORMATION PROVIDED IN THIS MSDS IS CONSIDERED ACCURATE AND RELIABLE BASED ON INFORMATION FROM INTERNAL AND OUTSIDE SOURCES TO THE BEST OF LUBE-TECH'S KNOWLEDGE. HOWEVER, LUBE-TECH MAKES NO REPRESENTATIONS, GUARANTEES OR WARRANTIES, EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, REGARDING THE ACCURACY OF SUCH INFORMATION OR THE RESULT TO BE OBTAINED FROM THE USE THEREOF, OR AS TO THE SUFFICIENCY OF THE INFORMATION HEREIN PRESENTED. LUBE-TECH ASSUMES NO RESPONSIBILITY FOR INJURY TO RECIPIENT OR TO THIRD PERSONS OR FOR ANY DAMAGE TO ANY PROPERTY AND RECIPIENT ASSUMES ALL SUCH RISKS.

REVISIONS / COMMENTS:

Ref 300571 Rev C 08-10