

Material Safety Data Sheet

1. Chemical Product and Company Identification

Product Name: Zappi AW Hydraulic 32	Manufacturer: Zappi Oil Company
Chemical Name: Hydraulic Oil	44 Bridge Street
Chemical Family: Blend	Washington, PA 15301
	724-222-9188
Emergency Telephone Number:	CHEMTREC: 800-424-9300

2. Composition / Information on Ingredients:

Exposure Guidelines			OSHA		ACGIH	
Component/CAS Number/ Limits for the Product	LO%	HI%	TWA	STEL	TWA	STEL
Severely Solvent Refined Heavy Paraffinic Petroleum Oil 64741-88-4	90.00	100.00	5			5
Zinc Dialkyl Dithiophosphate 68649-42-3	.00	1.00	No Specific Limit			
Acrylic Copolymer 68171-46-0	.00	1.00	No Specific Limit			
Calcium Sulfonate 61789-86-4	.00	1.00	No Specific Limit			
2-Ethylhexanol 104-76-7	.00	1.00	No Specific Limit			
Additional Exposure Limits			----- Government Regulation			
Other Limit - Oil Mist: 5MG/M3			OSHA PEL/ACGIH TLV			

3. Hazard Identification

Emergency Overview:

MAY CAUSE SKIN IRRITATION
 APPEARANCE: Amber Fluid ODOR: Slight Odor

Potential Health Effects:

INHALATION:	No effects expected
INGESTION:	Practically non-toxic.
EYE CONTACT:	Expected to be minor eye irritant.
SKIN CONTACT:	Practically Non- Toxic if Absorbed (LD50 > 2000 MG/KG). May cause moderate irritation with prolonged or repeated contact.

Carcinogen Listed by:	IARC (No)	NTP (No)	OSHA (No)
	ACGIH (No)	Other (No)	

NFPA / HMIS Classification Hazard Rating

Health – 0/0	0 = Least
	1 = Slight
Flammability – 1/1	2 = Moderate
	3 = High
Reactivity – 0/0	4 = Extreme

4. First Aid Measures

INHALATION:	Move to fresh air.
EYE CONTACT:	Flush with water for at least 15 minutes. If irritation persists, obtain medical assistance.
SKIN CONTACT:	Wash with soap and water until no odor remains. If redness or swelling develops, obtain medical assistance. Wash clothing before reuse.
INGESTION:	Practically non-toxic. Induction of vomiting not required. Obtain emergency medical attention. Small amounts, which accidentally enter mouth, should be rinsed out until taste of it is gone.

5. Fire Fighting Measures

Flash point (method):	405F Minimum COC, 207C Minimum COC
Flammable Limits:	Not established
Auto-ignition Temp:	675F Estimated, 359C Estimated
Extinguishing media:	Water spray, dry chemical, carbon dioxide (CO2), foam.
Fire Fighting Instructions:	Avoid breathing smoke and vapor.

Fire Fighting Equipment: Wear self-contained breathing apparatus and protective clothing. Use water spray to keep fire-exposed containers cool.

Hazardous Combustion Products: Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

6. Accidental Release Measures

SPILLS OR LEAKS: Contain spills, advise EPA; state agency if required. Absorb on inert material, shovel, sweep or vacuum spill.

7. Handling and Storage

NFPA Class IIIB Storage: Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

VENTILATION: Ventilate as needed to comply with exposure limit. General dilution ventilation acceptable.

PERSONAL PROTECTIVE EQUIPMENT

EYE: Splash proof chemical goggles recommended to protect against splash of product.

GLOVES: Protective gloves recommended when prolonged skin contact cannot be avoided. The following glove materials are acceptable: polyvinyl chloride (PVC); neoprene; nitrile; polyvinyl alcohol; viton.

RESPIRATOR: Concentration in air determines protection needed. Use only NIOSH certified respiratory protection. Respiratory protection usually not needed unless product is heated or misted. Half-mask air purifying respirator with dust/mist filters or HEPA filter cartridges is acceptable to 10 times the exposure limit. Full-face air purifying respirator with dust/mist filters or HEPA filter cartridges is acceptable to 50 times the exposure limit. Protection by air purifying respirators is limited. Use a positive pressure demand full-face supplied air respirator or SCBA for exposures above 50X the exposure limit. If exposure is above IDLH (immediately dangerous to life and health) or there is the possibility of an uncontrolled release or exposure levels are unknown then use a positive pressure demand full face supplied air respirator with escape bottle or SCBA.

OTHER: If contact is unavoidable, wear chemical resistant clothing. The following materials are acceptable as protective clothing materials: polyvinyl alcohol (PVA); polyvinyl chloride (PVC); neoprene; nitrile; viton; polyurethane; launder soiled clothes.

9. Physical and Chemical Properties

Appearance/Odor:	Amber Fluid/Slight odor.
Boiling Point:	High
Vapor Pressure:	<0.0001 (MM HG @ 20°C)
Melting Point:	N/A
Molecular Weight:	N/A (G/Mole)
Packing Density:	N/A
Solubility in Water:	Nil (% by Volume) OCTANOL/WATER COEFF: N.D.
Evaporation Rate:	1000X Slower (Ethyl ether=1) ODOR THRESHOLD: N.D.
Specific Gravity:	0.86 (Water=1) VAPOR DENSITY: 10+ (Air =1)
Viscosity:	225 SUS @ 100°F 46 CST @ 40°C

10. Stability and Reactivity

STABILITY:	Stable.
CONDITIONS TO AVOID:	None known.
MATERIALS TO AVOID:	Strong oxidizing agents.
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION:	Combustion will produce carbon monoxide and asphyxiants.

11. Toxicological Information

INHALATION:	Low acute toxicity.
SKIN:	Practically non-toxic if absorbed. Mild irritation with prolonged or repeated contact.
EYE:	Mildly irritating on contact.
ORAL:	Practically non-toxic.
ACUTE TOXICITY:	estimated oral LD_{50} in rats is: > 15 g/kg. Estimated draize skin irritation score is: 2.10 out of 8.0

Severely solvent refined heavy paraffinic petroleum oil:

INHALATION:	Low acute toxicity.
SKIN:	Practically non-toxic if absorbed may cause moderate irritation with prolonged and repeated contact.
EYE:	Minimally irritating on contact.
INGESTION:	Practically non-toxic if swallowed.

Calcium Sulfonate:

INHALATION/INGESTION: No data available.
 SKIN: Moderate irritant. Cause allergic skin reaction in animals.
 EYE: Moderate to severe irritation.

Butylated Phenol:

No data available for all routes of exposure.

Zinc Dialkyl Dithiophosphate:

INHALATION: Toxic hydrogen sulfide is generated when heated above 200 deg. F. This can cause central nervous system (brain) effects, nausea, dizziness, confusion, loss of sense of smell, muscle cramps, in coordination, unconsciousness, coma, respiratory failure, or death.
 SKIN: Prolonged or repeated contact may cause moderate irritation, redness, drying, cracking, dermatitis.
 EYE: Irritant.
 ORAL: Harmful if swallowed.

Acrylic Copolymer:

No data available for all routes of exposure.

2-Ethylhexanol:

INHALATION: Overexposure may cause nose, throat irritation, nasal discomfort and discharge, chest pain, cough, headache, nausea, vomiting.
 SKIN: Irritant. May cause corneal injury.
 ORAL: Moderately toxic. May cause abdominal discomfort, nausea, vomiting, and diarrhea.

12. Ecological Information

Ecotoxicity: No data available.

13. Disposal Information

Follow federal, state and local regulations. Not RCRA hazardous waste if uncontaminated. If "used", RCRA criteria (ignitability, reactivity, corrosivity, and toxicity characteristics) must be determined. Do not flush to drain/storm sewer. Contract to authorized disposal service.

14. Transportation Information

DOT PROPER SHIPPING NAME:	Petroleum Lubricating Oil
HAZARD CLASS:	Not regulated
ID NUMBER:	Not regulated
LABEL REQUIRED:	Not regulated
IMDG PROPER SHIPPING NAME:	N.D.
IATA PROPER SHIPPING NAME:	N.D.

15. Regulatory Information

TSCA: This material is in compliance with the TOXIC SUBSTANCES CONTROL ACT (15 USC 2601-2629) and is listed in the TSCA Inventory.

SARA 302 THRESHOLD PLANNING QUANTITY, N/A

SARA 304 REPORTABLE QUANTITY N/A

SARA 311/312 REPORTING:

Health Immediate (Acute) No

Health Delayed (Chronic) No

Physical Fire No

Physical Sudden Release of Pressure No

Physical Reactive No

When a product and/or component is listed below, the regulatory list on which it appears is indicated.

ZINC DIALKYL DITHIOPHOSPHATE - NJ01

01=SARA 31302= SARA 302/30403=IARC CARCINOGEN

04=OSHA CARCINOGEN 05=ACGIH CARCINOGEN06=NTP CARCINOGEN

07=CERCLA 302.408=WHMIS CONTROLLED PROD.

10=OTHER CARCINOGEN

PA=PA RTKNJ=NEW JERSEY RTKCA=CALIFORNIA PROP 65

MA=MASS. RTKMI-MICHIGAN 406MN=MINNESOTA RTK

FL=FLORIDARI=RHODE ISLANDIL=ILLINOIS

NY=NEW YORKWV=WEST VIRGINIACT=CONNECTICUT

LA=LOUISIANAME=MAINEOH=OHIO

16. Other Information

Zappi Oil Company

44 Bridge Street

Washington, PA 15301

724-222-9188

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