



Prepared according to 29CFR 1910.1200.

1	Chemical Product and Company Identification
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Product Trade Name	MICROZOL(TM) XP4
CAS Number	Not applicable for mixtures.
Synonyms	None.
Generic Chemical Name	Mixture.
Product Type	Miscellaneous commercial development.
Preparation/Revision Date	04 January 2006
Transportation Emergency Phone No.	(CHEMTREC) 1-800-424-9300. Outside the U.S. (703) 527-3887
MSDS No.	23719140-2202611-4093630-811103

2	Hazards Identification
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Appearance	Dark amber liquid.
Odor	Mild
Principal Hazards	

- **This material has no known health hazards.**

This material is not considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.
See Section 11 for complete health hazard information.

3	Composition/Information on Ingredients
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Hazardous Ingredients	This material has no known hazards under applicable laws.
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4	First Aid Measures
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Eyes	Flush with water at least 30 minutes. Get medical attention if eye irritation develops or persists.
Skin	Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.
Inhalation	Remove exposed person to fresh air if adverse effects are observed.
Oral	DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.
Additional Information	Note to physician: Treat symptomatically.

5	Fire Fighting Measures
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Flash Point	178 Deg C, 352.4 Deg F PMCC (Typical)
Extinguishing Media	CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.
Firefighting Procedures	Recommend wearing self-contained breathing apparatus. Water may cause splattering.
Unusual Fire & Explosion Hazards	Toxic fumes, gases or vapors may evolve on burning.

6	Accidental Release Measures
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Spill Procedures	Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.
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7	Handling and Storage
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Pumping Temperature	Not determined.
Maximum Handling Temperature	Not determined.
Handling Procedures	Keep material away from heat, sparks, pilot lights, static electricity and open flame. Keep containers closed when not in use. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.
Maximum Storage Temperature	Not determined.
Storage Procedures	Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 113 deg F (45 deg C) for extended periods of time or if heat sources in excess of 250 deg F (121 deg C) are used.
Loading Temperature	Not determined.

8	Exposure Controls/Personal Protection
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Exposure Limits	None established
Other Exposure Limits	Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.
Engineering Controls	Use with adequate ventilation.
Gloves Procedures	Nitrile.
Eye Protection	Safety Glasses.
Respiratory Protection	Under normal use conditions, respirator is not usually required. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure limit is exceeded.
Clothing Recommendation	Long sleeve shirt is recommended.

9	Physical and Chemical Properties
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Flash Point	178 Deg C, 352.4 Deg F PMCC (Typical)
Upper Flammable Limit	Not determined.
Lower Flammable Limit	Not determined.
Autoignition Point	Not determined.

Explosion Data	Material does not have explosive properties.
Vapor Pressure	Not determined.
pH	Not determined.
Specific Gravity	0.88 (15.6 Deg C)
Bulk Density	Not determined.
Water Solubility	Insoluble.
Percent Volatile	Unknown.
Percent VOC	Not determined.
Vapor Density	Not determined.
Evaporation Rate	Not determined.
Odor	Mild
Appearance	Dark amber liquid.
Viscosity	130 Centistokes (40 Deg C) 17.1 Centistokes (100 Deg C)
Odor Threshold	Unknown.
Boiling Point	Not determined.
Pour Point Temperature	Not determined.
Melting / Freezing Point	Not determined.

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.

10	Stability and Reactivity
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Stability	Material is normally stable at room temperature and pressure. See the Handling and Storage Section for further details.
Decomposition Temperature	Not determined.
Incompatibility	Oxidizing agents.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Hydrogen sulfide may also be released.
Conditions to Avoid	Not determined.

11	Toxicological Information
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-- ACUTE EXPOSURE --

Eye Irritation	Not expected to cause eye irritation. Based on data from components or similar materials.
Skin Irritation	Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
Respiratory Irritation	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.
Dermal Toxicity	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.
Inhalation Toxicity	Not expected to be a toxic inhalation hazard. Based on data available from components or similar materials.
Oral Toxicity	The LD50 in rats is > 5000 mg/kg. Based on data from components or similar materials.
Dermal Sensitization	No data available to indicate product or components may be a skin sensitizer.

Inhalation Sensitization No data available to indicate product or components may be respiratory sensitizers.

-- CHRONIC EXPOSURE --

Chronic Toxicity No data available to indicate product or components present at greater than 1% are chronic health hazards.

Carcinogenicity This product is formulated with mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. We are currently in the process of assuring that all oils used in this product contain less than 3% extractables by the IP 346 test.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.

Teratogenicity No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

-- ADDITIONAL INFORMATION --

Other No other health hazards known.

12	Ecological Information
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-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity The acute LC50 is 10 - 100 mg/L based on component data.

Freshwater Invertebrates Toxicity Chronic effects expected at 100 - 1000 mg/L based on component data.

Algal Inhibition The acute EC50 is > 1000 mg/L based on component data.

Saltwater Fish Toxicity Not determined.

Saltwater Invertebrates Toxicity Not determined.

Bacteria Toxicity The acute EC50 for bacteria is 100 - 1000 ppm based on component data.

Miscellaneous Toxicity Not determined.

-- ENVIRONMENTAL FATE --

Biodegradation At least 25% of the components in this product show moderate biodegradation based on OECD 301-type test data. At least 25% of the components in this product show moderate biodegradation based on OECD 302-type test data.

Bioaccumulation 1 - 10% of the components potentially bioconcentrate, based on octanol/water coefficients.

Soil Mobility Not determined.

13	Disposal Consideration
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Waste Disposal This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261.

14	Transport Information
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ICAO/IATA (US) Not regulated.

ICAO/IATA (International) Not regulated.

IMDG Not regulated.

IMDG (Elevated) Elevated temperature liquid, n.o.s., Class 9, UN3257, PG III

IMDG EMS Fire Not applicable.

IMDG EMS Spill Not applicable.

IMDG MFIAG	Not applicable.
IMO Marine Vessel	DO NOT TRANSPORT - ADDITIONAL INFORMATION REQUIRED
USCG Compatibility	Not determined.
U.S. DOT Bulk	Not regulated.
U.S. DOT Bulk (Elevated)	Elevated temperature liquid, n.o.s., Class 9, UN3257, PG III
U.S. DOT Non-Bulk	Not regulated.
DOT NAERG	Not applicable.
TDG Bulk	Not regulated.
TDG Bulk (Elevated)	Elevated temperature liquid, n.o.s., Class 9, UN3257, PG III
TDG Non-Bulk	Not regulated.
Mexico	Not regulated.
Mexico (Elevated)	Elevated temperature liquid, n.o.s., Class 9, UN3257, PG III
Mexico Non-Bulk	Not regulated.
Bulk Quantity	85000 liters, 22457 gal.
Non-Bulk Quantity	207.8 liters, 55 gal.

15	Regulatory Information
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-- Global Chemical Inventories --

U.S. TSCA Inventory	All components of this material are on the US TSCA Inventory or are exempt.
Other TSCA Reg.	Section 4a (Nonane).May be subject to export notification under TSCA Section 12(b).
EEC EINECS	All components comply with the EU 7th Amendment and are approved for EU sales. Lubrizol must maintain records of all imports of this product into the EU. Third party importers are asked to report every import to The Lubrizol PSCD Manager (Europe),Hazelwood,Derby DE56 1QN, UK.
Japan METI	This product may be imported to Japan only by Lubrizol Japan.
Australia	All components are in compliance with chemical notification requirements in Australia.
Canada	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
Switzerland	This product requires notification before sale in Switzerland.
Korea	All components are in compliance in Korea.
Philippines	This product requires notification before sale in the Philippines.
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China.

-- Other U.S. Federal Regulations --

SARA Ext. Haz. Subst.	This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.								
SARA Section 313	From 1 to 4.9 percent zinc compounds; contains 0.3% as Zn.								
SARA 311 Classifications	<table border="1"> <tr> <td>Acute Hazard</td> <td>No</td> </tr> <tr> <td>Chronic Hazard</td> <td>No</td> </tr> <tr> <td>Fire Hazard</td> <td>No</td> </tr> <tr> <td>Reactivity Hazard</td> <td>No</td> </tr> </table>	Acute Hazard	No	Chronic Hazard	No	Fire Hazard	No	Reactivity Hazard	No
Acute Hazard	No								
Chronic Hazard	No								
Fire Hazard	No								
Reactivity Hazard	No								
CERCLA Hazardous Substances	None known.								
FDA Approval	Not applicable.								

-- State Regulations --

Cal. Prop. 65 This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components: < 1 ppm arsenic < 1 ppm cadmium < 1 ppm lead

-- Registrations --

U.S. Fuel Registration Not applicable.
U.S. Dept of Agriculture This product has not been filed with the USDA to support H2 approvals.
NSF Nonfood Compounds Registration Not determined.
Finnish Registration Number Not Registered
Sweden Registration Number Not Registered
Norway Registration Number Not Registered
Danish Registration Number Not Registered
Switzerland Bag T Registration Number Not Registered
Korean Registration Number Not Registered
China Registration Number Not Registered
New Zealand Registration Number Not Registered

-- Other / International --

TDG Regulated Limit. None known.
U.S. Tariff Heading Number 2710.19.30.20
Schedule B Number 2710.19.3020

16	Other Information
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US NFPA Codes

Health	Fire	Reactivity	Special
1	1	0	N/E

HMIS Codes

Health	Fire	Reactivity
0	1	0

Precautionary Labels

- **This material has no known health hazards.**

Revision Indicators

Section: 1 PRODUCT TYPE

Changed: 4 January 2006

Users Responsibility/Disclaimer of Liability: The information set forth herein is based on our current knowledge, and is intended to describe the product solely with respect to health, safety and the environment. As such, it must not be interpreted as a guarantee of any specific property of the product. As a result, the customer shall be solely responsible for deciding whether said information is suitable and beneficial.