Material Safety Data Sheet


1 Chemical Product and Company Identification

**Product Trade Name**
MAX DUTY SUPER F

**CAS Number**
Not applicable for mixtures.

**Synonyms**
None.

**Generic Chemical Name**
Mixture.

**Product Type**
Multipurpose.

**Preparation/Revision Date**
30 October 2013

**Transportation Emergency Phone No.**
FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)

**MSDS No.**
23756752-1532210-3112321-102103

2 Hazards Identification

**Appearance**
Red liquid.

**Odor**
Mild

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

See Section 11 for complete health hazard information.

3 Composition/Information on Ingredients

**Hazardous Ingredients**
This material has no known hazards under applicable laws.

4 First Aid Measures

**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. Get immediate medical attention.

**Additional Information**
Note to physician: Treat symptomatically.

5 Fire Fighting Measures

**Flash Point**
176 °C, 348.8 °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**
See section 10 for additional information.

6 Accidental Release Measures

**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. Shut off leak if without risk. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

7 Handling and Storage
Pumping Temperature
Ambient

Maximum Handling Temperature
70 °C, 158 °F

Handling Procedures
Keep containers closed when not in use. Avoid eye contact. Avoid repeated or prolonged skin contact. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

Maximum Storage Temperature
45 °C, 113 °F

Storage Procedures
See section 10 for incompatible materials.

Maximum Loading Temperature
Not determined.

8
Exposure Controls/Personal Protection

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 TWA of 5 mg per cubic meter.

Engineering Controls
Use with adequate ventilation.

Gloves Procedures
Use nitrile or neoprene gloves.

Eye Protection
Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

Respiratory Protection
Use NIOSH/MSHA approved respirator with a combination organic vapor and high efficiency filter cartridge if recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

Clothing Recommendation
Long sleeve shirt is recommended. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.

9
Physical and Chemical Properties

Flash Point
176 °C, 348.8 °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
0.83 (15.6 °C)

Bulk Density
Not determined.

Water Solubility
Insoluble.

Percent Solid
Not determined.

Percent Volatile
Not determined.

Volatile Organic Compound
Not determined.

Vapor Density
Not determined.

Evaporation Rate
Not determined.

Odor
Mild

Appearance
Red liquid.

Viscosity
94 Centistokes (25 °C)
51 Centistokes (40 °C)
10 Centistokes (100 °C)

Odor Threshold
Not determined.

Boiling Point
Not determined.

Pour Point Temperature
-42 °C, -44 °F

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

Stability
Material is normally stable at moderately elevated temperatures and pressures.

Decomposition Temperature
Not determined.

Incompatibility
Strong oxidizing agents.

Polymerization
Will not occur.

Thermal Decomposition
Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

Conditions to Avoid
Do not expose to excessive heat, ignition sources, or oxidizing materials.

11
Toxicological Information
-- 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. Based on data from similar materials.

Dermal Toxicity
The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.

Inhalation Toxicity
No data available to indicate product or components may be a toxic inhalation hazard.

Oral Toxicity
The LD50 in rats is > 10,000 mg/Kg. Based on data from components or similar materials. Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in pulmonary edema and chemical pneumonitis.

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 contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to 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

-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity
The acute LC50 is 100 - 1000 mg/L based on component data.

Freshwater Invertebrates Toxicity
Chronic effects expected at 10 - 100 mg/L based on component data.

Algal Inhibition
Not determined.

Saltwater Fish Toxicity
Not determined.

Saltwater Invertebrates Toxicity
Not determined.

Bacteria Toxicity
Not determined.

Miscellaneous Toxicity
Not determined.

-- ENVIRONMENTAL FATE --

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

Bioaccumulation
25% or greater of the components potentially bioconcentrate, based on octanol/water coefficients.

Soil Mobility
Not determined.

13 Disposal Considerations

Waste Disposal
This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

14 Transport Information

ICAO/IATA I
Not regulated.

ICAO/IATA II
Not regulated.

IMDG
Not regulated.

IMDG EMS Fire
Not applicable.

IMDG EMS Spill
Not applicable.

IMDG MFAG
Not applicable.

MARPOL Annex II
Not determined.

USCG Compatibility
Not determined.

U.S. DOT Bulk
Not regulated.

DOT NAERG
Not applicable.

U.S. DOT (Intermediate)
Not regulated.

U.S. DOT Intermediate NAERG
Not applicable.

U.S. DOT Non-Bulk
Not regulated.
Review classification requirements before shipping materials at elevated temperatures.

--- Global Chemical Inventories --

USA
All components of this material are on the US TSCA Inventory or are exempt.

Other TSCA Reg.
None known.

EU
To obtain information on the REACH compliance status of this product, please visit Lubrizol.com/REACH, or e-mail us at REACH_MSDS_INQUIRIES@Lubrizol.com

Japan
All components are in compliance with the Chemical Substances Control Law of Japan.

Australia
All components are in compliance with chemical notification requirements in Australia.

New Zealand
May require notification before sale under New Zealand regulations.

Canada
All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

Switzerland
All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Korea
All components are in compliance in Korea.

Philippines
All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

China
All components of this product are listed on the Inventory of Existing Chemical Substances in China.

Taiwan
All components of this product are listed on the Taiwan inventory.

--- Other U.S. Federal Regulations --

This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

SARA Section 313
This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.

SARA 311 Classifications

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<th>Hazard Type</th>
<th>Code</th>
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<tr>
<td>Acute Hazard</td>
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<tr>
<td>Chronic Hazard</td>
<td>No</td>
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<tr>
<td>Fire Hazard</td>
<td>No</td>
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<tr>
<td>Reactivity Hazard</td>
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CERCLA Hazardous Substances
None known.

--- 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: < 0.01 ppm lead < 0.01 ppm C.I. Solvent Yellow 14, CAS no. 842-07-9 < 0.01 ppm Solvent Yellow 3, CAS no. 97-56-3 < 0.01 ppm C.I. Solvent Yellow 3, CAS no. 97-56-3 < 0.01 ppm arsenic < 0.5 ppm Benzene, CAS no. 71-43-2 2 ppm Sulfur dioxide, CAS no. 7446-09-5 0.001% Ethyl benzene, CAS no. 100-41-4 0.057% Toluene, CAS no. 108-88-3

--- Product Registrations --

U.S. Fuel Registration
Not applicable.

Finnish Registration Number
Not Registered

Swedish Registration Number
Not Registered

Norwegian Registration Number
Not Registered

Danish Registration Number
Not Registered

Swiss Registration Number
Not Registered

Italian Registration Number
Not Registered

--- Other / International --

Miscellaneous Regulatory Information
Not determined.

--- Other Information ---

US NFPA Codes

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<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
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(N/E) - None established
HMIS Codes

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<th>Reactivity</th>
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Precautionary Labels

- This material has no known health hazards.

Revision Indicators

This MSDS has no revisions since 30 October 2013

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.