

Material Safety Data Sheet

Prepared according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and ANSI MSDS Standard (Z400.1).
 Complies with Canadian Workplace Hazardous Materials Information System (WHMIS) standards.

Validation Date 04-01-2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Missile Lube 1 XL
Product Code 111
Material Uses Cutting Oil
Manufacturer Hangsterfer's Laboratories, Inc., 175 Ogden Road, Mantua, NJ 08051; Phone 856-468-0216, Fax 856-468-0200, Website: www.hangsterfers.com
Emergency Telephone Number Chemtrec 1-800-424-9300 in US
 Canutec 1-613-996-6666 in Canada
 For international assistance, dial Chemtrec US number 1-703-527-3887

2. HAZARDS IDENTIFICATION

Acute Health Effects

Skin Not expected to be a primary skin irritant.
Eye None known
Inhalation Not expected to present a hazard under normal use conditions.
Ingestion No known effect

HMIS	Health Hazard	1	NFPA	Health Hazard	1
	Fire Hazard	1		Fire Hazard	1
	Physical Hazard	0		Reactivity	0

Chronic Health Effects No known effect

Chronic Toxicity No known effect

Carcinogenic Effects None known

Aggravated Medical Conditions None known

Miscellaneous Hazards Avoid prolonged and/or repeated contact with skin. Prolonged and/or repeated contact with this material may produce mild skin irritation or inflammation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

If any of the components of this product are defined as hazardous by OSHA Hazard Communication Standard 1910.1200 and are present at 1% or more (0.1% or more for carcinogens) they will be listed in this section. If no components appear in this section, no components of the product meet or exceed the reporting requirements. OSHA PELs and ACGIH TLVs refer to the concentration in air of the specific chemical as measured by specific analytical methods.

4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Skin Contact Wash skin with soap and water. Consult a physician if necessary.

Inhalation Move to fresh air. Consult a physician if necessary.

Ingestion Do not induce vomiting. Drink plenty of water. Consult a physician if necessary.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Material may burn but does not ignite readily.
Suitable Extinguishing Media	Water spray or fog, dry chemical, carbon dioxide (CO ₂) or foam. Cool containers with flooding quantities of water until well after fire is out.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Hazardous Combustion Products	Carbon oxides.
Specific Hazards Arising from the Chemical	May be ignited by heat, sparks or flames. Keep product and empty container away from heat and sources of ignition.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Remove all sources of ignition. Avoid contact with the skin and the eyes. Wear boots, gloves and protective suit when handling large spills. Ensure adequate ventilation.
Methods for Containment	Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.
Methods for Clean-up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take all appropriate steps to avoid contamination of ground water.
Other Information	Report spills as required to the appropriate authorities.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes. Keep in a well ventilated place. Do not puncture, crush or incinerate containers.
Storage	Keep container tightly closed in a dry and well ventilated place. Keep away from direct sunlight. Keep away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits below those specified under Engineering Controls.
Engineering Controls	Use in well ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits (ACGIH TLV TWA: 5 mg/m ³ ; ACGIH TLV STEL: 10 mg/m ³ ; OSHA PEL TWA: 5 mg/m ³).
Eye/face Protection	Safety glasses with side-shields.
Skin Protection	Use protective gloves and clothing if contact with product is likely.
Respiratory Protection	If personal exposure levels cannot be maintained below accepted exposure limits, NIOSH/MSHA approved respiratory protection should be worn.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber.	Odor	Mild.
Physical State	Liquid.	pH (10% soln/water)	Not applicable.
Flash Point (COC)	168°C / 334°F	Boiling Point/Range	215°C / 419°F
Melting Point/Range	May begin to solidify at -28°C / -18°F.	Solubility In Water	Insoluble.
Specific Gravity (Water=1)	0.89	Vapor Density (Air=1)	> 5
Vapor Pressure	<0.01 mmHg @ 20 °C	Volatility	No data available
VOC Content, % Vol	No data available		
Viscosity	SUS @ 100°F = 70 cSt @ 40°C = 13		

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Acids. Incompatible with oxidizing agents. Alkalines.
Hazardous Decomposition Products	Carbon oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

This section relates to available toxicology information on the complete product. Information on components classified as hazardous is listed in Section 3.

Acute Toxicity	
LD50 Oral:	> 5000 mg/kg (rat, predicted based on data on components).
Irritation	Skin Irritation - OECD 404: Non-irritating (Rabbit, predicted based on data on components). Not expected to be a primary eye irritant.
Corrosivity	OECD 404: Non corrosive (Rabbit, predicted based on data on components)
Sensitization	None known
Chronic Toxicity	No known effect
Carcinogenicity	This product contains no ingredients with a concentration of 0.1% or more which are known to be carcinogenic.
Other Adverse Effects	None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Ecotoxicity and biodegradability of this complete mixture have not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water and should not be considered readily biodegradable. If information is available on any of the individual components listed in Section 3, it will appear in a table below.
Persistence/Degradability	No additional remarks.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of in accordance with Federal, state and local regulations.
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14. TRANSPORT INFORMATION

DOT	Not regulated.
TDG	Not regulated.
IATA	Not regulated.
IMDG/IMO	Not regulated.
ADR/RID	Not regulated.

15. REGULATORY INFORMATION

U.S. Regulations & Inventories No regulatory requirements found. All components of this product are either listed on the TSCA inventory or are exempt from listing requirements.

Canada Regulations & Inventories No regulatory requirements found. All components of this product are either listed on applicable inventories or are exempt from listing requirements. This product has been classified in accordance with the hazard criteria of the Canadian CPR (Controlled Products Regulations) and the MSDS contains all the information required by the CPR. Product Classification: Not hazardous

16. OTHER INFORMATION

Regulatory Lists Searched & Other Sources of Information

- ACGIH - American Convergence of Governmental Industrial Hygienists
- ADR - European Agreement for International Carriage of Dangerous Goods by Road
- ADN - European Agreement for International Carriage of Dangerous Goods by Inland Waterways
- ANSI - American National Standards Institute
- CAP65 - California Proposition 65 Hazard List
- CAS - Chemical Abstract Services
- CERCLA - Comprehensive Environmental Response, Compensation & Liability Act
- CHINA - China Inventory
- CPR - Canadian Controlled Products Regulations
- DOT - United States Department of Transportation
- DSL - Canada Domestic Substances List
- EINECS - European Union (EU) European Inventory of Existing Commercial Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IARC - International Agency for Research on Cancer
- IATA - International Air Transport Association
- ICAO - International Civil Aviation Organization
- IMDG - International Maritime Dangerous Goods Code
- MARTK - Massachusetts Right To Know List
- NDSL - Canada Non-Domestic Substances List
- NFPA - United States National Fire Protection Association
- NIOSH - United States National Institute for Occupational Safety & Health
- NJRTK - New Jersey Right To Know List
- NTP - United States National Toxicology Program
- OSHA - United States Occupational Safety & Health Administration
- PARTK - Pennsylvania Right To Know List
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- RCRA - United States Resources Conservation & Recovery Act
- RID - European Agreement for International Carriage of Dangerous Goods by Rail
- RIHSL - Rhode Island Hazardous Substance List
- SARA - United States Superfund Amendments & Reauthorization Act
- TDG - Canada Transportation of Dangerous Goods Act
- TSCA - US Toxic Substances Control Act
- WHMIS - Canada Workplace Hazardous Materials Information System

Definitions

- EC50 - Effective Concentration (Concentration of a compound where 50% of the expected effect is observed.)
- LC50 - Lethal Concentration (The concentration in water that will kill 50% of the test animals within a specific period of time, usually 96 hours.)
- LD50 - Lethal Dose (The single dose that will kill 50% of the test animals by any route other than inhalation such as by ingestion or skin contact.)
- OEL - Occupational Exposure Limit
- PEL - Permissible Exposure Limits
- STEL - Short Term Exposure Limit
- TLV - Threshold Limit Value
- TWA - Time Weighted Average
- TWAEV - Time Weighted Average Exposure Value

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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End of MSDS