

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product name **Missile Lube 1 XL**

Other means of identification**Recommended use of the chemical and restrictions on use**

Material Uses Cutting Oil.
Uses advised against Verify Applications

Details of the supplier of the safety data sheet**Supplier**

LiveTools PTY Limited
115 Young St. Carrington
NSW 2294 Australia
Telephone: 02 4017 0198

Manufacturer

Hangsterfer's Laboratories, Inc.
175 Ogden Road
Mantua, NJ 08051
Phone +1 856-468-0216
Fax +1 856-468-0200
Website: www.hangsterfers.com

Emergency telephone number

Emergency Telephone Livetools: 02 4017 0198

2. Hazards Identification

Not classified as hazardous according to criteria of NOHSC.

Classification of the substance or mixture

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements**Hazard statements**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Clear

Physical state Liquid

Odor Mild

Other Information

No known effect

3. Composition/information on Ingredients

Substance

Chemical Family Straight Oil Type.

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Description of first aid measures

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary. If eye irritation persists: Get medical advice/attention.

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

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

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

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Fire-Fighting Measures

Suitable extinguishing media Water spray or fog is preferred; if water not available use dry chemical, CO2 or regular foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

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.

Hazardous combustion products Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters In the event of fire, wear self contained breathing apparatus.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all sources of ignition. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear boots, gloves and protective suit when handling large spills. Ensure adequate ventilation.

Other Information Report spills as required to the appropriate authorities.

Environmental precautions

Environmental precautions No unusual hazard.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.
Methods for Clean-up	Take up mechanically, placing in appropriate containers for disposal.
Reference to other sections	See Section 12: ECOLOGICAL INFORMATION.

7. Handling and Storage**Precautions for safe handling**

Advice on safe handling	Avoid contact with eyes. Keep container in a well-ventilated place. Avoid breathing dust/fume/gas/mist/vapors/spray.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight. Keep away from heat and sources of ignition.
Incompatible materials	Acids and oxidizing agents.

8. Exposure Controls/Personal Protection**Control parameters**

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Appropriate 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).
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Individual protection measures, such as personal protective equipment

Eye/face protection	Safety glasses with side-shields.
Skin and Body 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, EN 529 approved respiratory protection should be worn.
Environmental exposure controls	No unusual hazard.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties**Information on basic physical and chemical properties**

Physical state	Liquid
Appearance	Clear
Odor	Mild
Color	amber
Odor threshold	No information available

Property	Values	Remarks • Method
pH	aqueous solution	

Melting point / freezing point	-	None known
Boiling point / boiling range	248 °C / 478 °F	
Flash point	168 °C / 334 °F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	Not applicable	
Lower flammability limit:	Not flammable	
Vapor pressure	<0.01 mmHg @ 20 °C	
Vapor density	> 5	
Specific gravity	0.880 - 0.895	
Water solubility	Insoluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature		
Kinematic viscosity	13.0 - 14.5 cSt @ 40°C / 70 - 78 SUS @ 100°F	
Dynamic viscosity	No information available	
VOC Content (%)	negligible	

10. Stability and Reactivity

Reactivity	No unusual hazard.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal use conditions.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	Acids and oxidizing agents.
Hazardous decomposition products	Carbon oxides.

11. Toxicological Information

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known information
Inhalation	No unusual hazard.
Eye contact	No unusual hazard.
Skin contact	No unusual hazard.
Ingestion	No unusual hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	None known.
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Acute toxicity

Numerical measures of toxicity

Oral LD50

> 5000 mg/kg (rat)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	OECD 404 - Non-irritating and non-corrosive (rabbit).
Serious eye damage/eye irritation	No unusual hazard.
Irritation	No unusual hazard.
Sensitization	No known effect.
Mutagenic Effects	No known effect.
Carcinogenicity	No known effect.
Reproductive effects	No known effect.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic toxicity	No known effect.
Aspiration Hazard	No unusual hazard.

12. Ecological Information

Ecotoxicity	No known effect
Persistence/Degradability	No unusual hazard.
Bioaccumulation	There is no data for this product.
Other adverse effects	None known

13. Disposal Considerations**Waste treatment methods**

Waste from residues/unused products	Dispose of in accordance with federal, state and local regulations.
Contaminated packaging	Do not reuse empty containers.

14. Transport Information

<u>DOT</u>	Not regulated
UN-No	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Description	Not regulated

<u>TDG</u>	Not regulated
UN-No	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Description	Not regulated

IMDG

Not regulated

UN number	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Marine pollutant	Not regulated
Description	Not regulated

RID

Not regulated

UN-No	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Description	Not regulated

IATA

Not regulated

UN number	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Description	Not regulated

15. Regulatory Information**International Inventories**

TSCA	Complies.
DSL/NDSL	Complies.
EINECS/ELINCS	Complies.
ENCS	Complies.
IECSC	Complies.
KECL	Complies.
PICCS	Complies.
AICS	Complies.

Legend:**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations**U.S. EPA Label information**

EPA Pesticide registration number Not applicable

16. Other Information

<u>NFPA</u>	Health hazards 1	Flammability 1	Instability 0	Physical and chemical properties - Personal Protection SECTION 8: Exposure controls/personal protection
<u>HMIS</u>	Health hazards 1	Flammability 1	Physical hazards 0	

Key or legend to abbreviations and acronyms used in the safety data sheet**Legend SECTION 8: Exposure controls/personal protection**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 RTECS (Registry of Toxic Effects of Chemical Substances)
 World Health Organization

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Revision Note

Disclaimer

The information provided on this SDS 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.

End of Safety Data Sheet