

BALLISTOL-LUBE

MATERIAL SAFETY DATA SHEET

Manufacturer: Ballistol USA, Inc.
 One Cypress Knee Trail
 Kitty Hawk NC 27949
 Tel: 919-261-6181

Authorized Distributor: AmoraTech, Inc.
 403 Old State Rd (P O Box 100)
 Shermans Dale PA 17090
 Tel: 717-582-3819

Product: Ballistol-Lube is an alkaline, emulsifying oily lubricant and corrosion inhibitor.

◇ **Hazardous Ingredients Information** Ballistol-Lube does not contain any components classified "hazardous" by OSHA
 Ballistol-Lube contains only one ingredient with TLVs:

Ingredient	OSHA PEL	ACGHI TLV
Isobutyl Alcohol	100 ppm TWA	50 ppm TWA

◇ **Physical Characteristics**

Boiling Point 128 °C (262.4 °F)
 Evaporation Rate Moderate at 20 °C (68 °F)
 Pour Point -17 °C (1.4 °F)
 Solubility in Water Not easily. Emulsifies.
 Specific Gravity at 20 °C (68 °F) Oil: 0.865 g/cm³
 Spray: 0.775 g/cm³
 Appearance Yellowish oil
 Odor Like citrus.

◇ **Reactivity Data**

Stability Stable
 Incompatibility None known
 Hazardous polymerization None known to occur
 Hazardous decomposition None known

◇ **Fire and Explosion Information**

Flash point 52 °C (126 °F)
 Flammable limits (LEL/UEL) Not applicable

Extinguishing media Foam, carbon dioxide, water.

Special firefighting procedures Do not use dry powder as extinguishing medium. Wear protective gear and self-contained breathing apparatus as necessary under conditions.

Special fire / explosion hazards Should be treated as flammable aerosol although product has not been tested as such to ASTM standards. Butane / propane (A-70) used as propellant.

◇ **Health Hazard Data**

Routes of Entry:

Inhalation Aerosol spray - possible. Non-aerosol - not probable.
 Ingestion Possible.
 Absorption through skin Insignificant if any.

Acute and Chronic Health Hazards:

No LD-50 oral could be determined for Ballistol-Lube with rats and rabbits. Manufacturer classifies product as non-toxic. BALLISTOL-Lube does not contain Benzene or Kerosene.

Carcinogenicity:

No NTP publication. No IARC monograph. Ballistol-Lube is based on medicinal grade mineral oil (CAS# 8042-47-5), which has been classified "Class 3" by the IARC, This means that there is insufficient evidence for this substance to cause cancer in animals or humans. BALLISTOL-Lube does not contain any substance currently known to be a carcinogen.

Signs and Symptoms of Exposure None known.
 Medical Conditions Generally Aggravated by Exposure None known.

Emergency and First Aid Procedures:

In the event of contact with eyes, flush with large quantities of water. If ingested, consult with physician.

◇ **Control and Protection Information**

Respiratory Protection Information	Not required.	Eye Protection	Not normally required.
Ventilation	Locally as needed.	Protective Gloves	Not required.
Mechanical	As needed.	Other Protective Clothing	Not normally required.

Work and Hygienic Practices:

Avoid contact with eyes. Use in ventilated area. Do not use around flame or hot surface. Do not spray into open flames. Do not puncture aerosol container.

◇ **Safe Handling and Disposal Information**

Steps to Take in Case of Spill:

Wipe up with absorbant rags. Use oil absorbant material. Sweep up and place in container. Wash area with warm water and detergent to eliminate slipperiness.

Waste Disposal Method:

Follow applicable Federal and local regulations.

Handling and Storage:

Store in cool dry place out of sunlight. Do not store in areas exposed to temperatures above 49 °C (120 °F). Store and use in ventilated room. Keep away from hot surfaces. Keep out of the reach of children.

◇ **Transportation Data**

	<u>Aerosol</u>	<u>Non-Aerosol</u>
Description:	Aerosols, flammable	Petroleum Distillate n.o.s.
ID Number:	UN1950	UN1268
Hazard Class:	2.1	3
Packaging Group:	NONE	III
Domestic Surface:	Consumer Commodity, ORM-D	Consumer Commodity, ORM-D, for inner containers no more than one gallon.
Air:	Check with Dangerous Goods desk, or call Ballistol USA, Inc.	

Disclaimer

The information and statements contained in this document have been obtained from the manufacturer and from recognized reference sources as provided to or obtained by Ballistol USA, Inc. Ballistol USA believes the information in this document to be true and reliable, but expressly disclaims any liability for providing such information and toxicological data.

This document was prepared by Ballistol USA, Inc. in June of 1994. Last revision: February, 1998.

Acronyms:

LEL	=	Lower Exposure Limit
UEL	=	Upper Exposure Limit
LD 50	=	Median Lethal Dose. It is the dose at which 50% of a given population will experience fatalities due to a chemical substance.
NTP	=	National Toxicological Program.
IARC	=	International Agency for Research on Cancer.
PEL	=	Permissible Exposure Limit (as set by OSHA).
CAS	=	Chemical Abstract Service
TLV	=	Threshold Limit Value