LUBRICATION ENGINEERS®, INC.
300 Bailey Avenue FORT WORTH, TX 76107
MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

SUPPLIER:
Lubrication Engineers®, Inc.
300 Bailey Avenue
Fort Worth, TX 76107

EMERGENCY TELEPHONE NUMBERS.:
Company: (817) 834-6321
In the event of an emergency spill, fire, or exposure—Call:
Chemtrec: (Within USA) (800) 424-9300
(Outside USA—call collect) (703) 527-3887

CHEMICAL NAME AND SYNONYMS:
Not applicable

TRADE NAME AND SYNONYMS:
2002 ALMASOL® Wire Rope Lubricant (Aerosol)
2002 Wire Rope Lubricant (Aerosol)

CHEMICAL FAMILY:
Hydrocarbon

FORMULA:
Not applicable

SECTION II - TYPICAL CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE:
Brown lubricant

ODOR:
Solvent odor

RELATIVE DENSITY:
(Air=1) >1

MELTING POINT: °F
Not applicable

BOILING POINT: °F
Unknown

VAPOR PRESSURE:
Unknown

VISCOSITY: @ 210°F, SUS
Not applicable

VISCOSITY: @ 100°F, SUS
Not applicable

SOLUBILITY IN WATER:
Negligible

POUR POINT: °F
Not applicable

FLASH POINT: °F (Method)
105 (TCC)

SPECIFIC GRAVITY: (H_2O=1)
<1.0

@ 100°C, cSt
Not applicable

@ 40°C, cSt
Not applicable

PH: 6-8

FLAMMABILITY CATEGORY PER 16 CFR 1500.45:
Extremely flammable

SECTION III - INGREDIENTS

	WT PCT (APPROX)	TLV	ORAL LD50	DERMAL LD50
HAZARDOUS INGREDIENTS:				
Oil Mist (mineral)	<10.0	5mg/m^3-TWA	Unknown	Unknown
Mineral Spirits	<70.0	100 ppm	Unknown	Unknown
Antimony dialkyldithiocarbamate	<4.0	0.5mg/m^3 as Sb	>16400 mg/kg Rat	16000 mg/kg Rabbit
Antimony compounds (non-toxic, liquid organo-metallic compound)	3.0-7.0	0.5 mg/m^3 as Sb	>16400 mg/kg Rat	>16000 mg/kg Rabbit
Carbon Dioxide	<3.0	800 ppm	Unknown	Unknown

NON-HAZARDOUS INGREDIENTS:

ADDITIVES AND/OR OTHER INGREDIENTS: This product is a mixture. The specific chemical identity of hazardous ingredients and non-hazardous ingredients, their C.A.S. numbers and their exact percent of composition are proprietary to Lubrication Engineers®, Inc. and are being withheld as Trade Secrets. The above listing of hazardous ingredients discloses the properties, approximate concentration and known toxicological effects of the hazardous ingredients. This material is an automotive/industrial lubricant with a low order of toxicity and irritancy. The product is formulated with ingredients that are not designated as harmful to the ozone.

REGULATORY INFORMATION:

SARA Title III: This product does not contain any chemical substance on the SARA Extremely Hazardous Substances list. If this product contains any chemicals that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372, they will be listed in the above HAZARDOUS INGREDIENTS section.

TSCA: This material is in compliance with the Toxic Substances Control Act (15 USC 2601-2629) and all components of this product appear on the Toxic Substance Control Act (TSCA) inventory list.

Clean Air Act: No ozone depleting chemicals listed in Title VI, Stratospheric Ozone Protection, Section 602 of the Clean Air Act are present or used in the manufacturing process of this product.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: °F (Method)
105 (TCC)

FLAMMABLE LIMITS: LEL UEL
Unknown

EXTINGUISHING MEDIA:

Foam, dry chemical, water fog, or carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES:

Avoid bursting of aerosol cans. Do not expose to temperatures of 120 °F or higher. Do not puncture or incinerate.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Typical aerosol hazards. Avoid possible accumulations of vapors at floor level as vapors are heavier than air. Self-contained breathing apparatus and protective clothing should be worn in fighting fires.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: (If Established)

Not established. Oil mist = 5mg/m^3
100 ppm suggested

EFFECTS OF OVEREXPOSURE:

Although there are no consistent primary routes of entry, the product may cause dizziness, anesthesia and mild dermatitis upon prolonged contact and is expected to be an eye and lung irritant. Any existing skin, eye, or lung irritation may be aggravated by direct contact. Testing of oils similar to mineral spirits by I.A.R.C. has produced skin tumors in experimental animals.

SECTION VI - EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT:

Flush immediately with water until irritation subsides.

SKIN CONTACT:

Wash affected skin area with mild soap and water.

INGESTION:

Do not induce vomiting. Contact a physician.

INHALATION:

Remove to fresh air. If not breathing, give artificial respiration. Contact a physician.

SECTION VII - REACTIVITY DATA

STABILITY: (Thermal, Light, Etc.)

Stable

CONDITIONS TO AVOID:

Contact with nuclear radiation and strong oxidizing materials.

INCOMPATIBILITY: (Materials to avoid)

Strong oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS:

Dense smoke; oxides of C, S, N, Ca, and Sb; hydrogen sulfide.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition. Treat as a petroleum oil spill. Ventilate area well.

WASTE DISPOSAL METHOD:

Used petroleum products may be recycled through re-refining processes.

SECTION IX - SPECIAL PROTECTION INFORMATION

EYE PROTECTION:

Sufficient to avoid direct contact.

SKIN PROTECTION:

Protective neoprene or plastic gloves may be desired.

RESPIRATORY PROTECTION:

Usually not needed in open, unconfined areas.

VENTILATION:

Usually not needed in open, unconfined areas. In enclosed areas, sufficient ventilation to meet recommended TLV of 100 ppm. Ventilation is necessary at floor level as vapors are heavier than air.

OTHER:

Usually not needed.

SECTION X - SPECIAL PRECAUTIONS

Do not store above 120 °F. Keep away from heat, sparks, open flames, and strong oxidants. Avoid eye contact and prolonged skin contact. Avoid breathing oil mists. Wash thoroughly after handling.

SECTION XI - HAZARD RATINGS

There are several recognized and accepted systems that assign hazard ratings to materials. Although this product has not been evaluated specifically against these systems, the ratings for the National Fire Protection Association (NFPA) and the National Paint and Coatings Association's Hazardous Material Identification System (HMIS) for the lubricant residue and as applied are:

	NFPA	HMIS
Health	2	2
Flammability	4	4
Reactivity	0	0