

MATERIAL SAFETY DATA SHEET

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I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: METAL LUBE
HMIS Ratings:
 Health: Slight(1)
 Flammability: Extreme(4)
 Instability/Reactivity: Minimal(0)
NFPA Ratings:
 Personal Protective Equipment: B

Other:

EMERGENCY OVERVIEW:
 WILL BE EASILY IGNITED BY HEAT, SPARK OR FLAMES.
 HARMFUL IN CONTACT WITH EYES. MAY BE HARMFUL IF
 ABSORBED THROUGH SKIN. PROLONGED EXPOSURE MAY
 CAUSE CHRONIC EFFECTS. FLAMMABLE
 CONTENTS UNDER PRESSURE. AEROSOL.

II. COMPOSITION, INFORMATION ON INGREDIENTS

| Chemical Ingredients | C.A.S. Number | % By Weight | ACGIH TLV TWA/STEL | OSHA PEL TWA/STEL | Other TWA/STEL | LD50 | LC50 |
|------------------------------------------------------------|-----------------------------------|--------------------|---------------------------|--------------------------|-----------------------|-------------|-------------|
| SYNTHETIC ISOPARAFFINIC HYDROCARBON | 64742-47-8 | 20 - 30 | | | | | |
| Notes | | | | | | | |
| MINERAL SPIRITS (64742-47-8 / 8052-41-3) | MIXTURE | 20 - 30 | 100 PPM | 500 PPM | | | |
| Notes | STODDARD SOLVENT USED AS A GUIDE. | | | | | | |
| PROPANE | 74-98-6 | 8 - 10 | 1000 PPM | 1000 PPM | | | |
| Notes | | | | | | | |
| 2-BUTOXYETHANOL | 111-76-2 | 8 - 10 | 20 PPM | 50 PPM | | | |
| Notes | | | | | | | |
| NON-HAZARDOUS AND OTHER COMPONENTS BELOW REPORTABLE LEVELS | | 20 - 40 | | | | | |
| Notes | | | | | | | |

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: CONTACT MAY IRRITATE OR BURN EYES. EYE CONTACT MAY RESULT IN CORNEAL INJURY.

Skin: HARMFUL IN CONTACT WITH SKIN. PROLONGED OR REPEATED CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS (RASH).

Ingestion: EXPOSURE BY INGESTION OF AN AEROSOL IS UNLIKELY. MAY CAUSE DELAYED LUNG DAMAGE. COMPONENTS OF THE PRODUCT MAY BE ABSORBED INTO THE BODY BY INGESTION.

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| Inhalation: | INTENTIONAL MISUSE BY CONCENTRATING AND INHALING THE PRODUCT CAN BE HARMFUL OR FATAL. PROLONGED INHALATION MAY BE HARMFUL. |
| Other: | ROUTES OF EXPOSURE SKIN CONTACT. INGESTION. INHALATION. EYE CONTACT. |

IV. FIRST AID MEASURES

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| Eyes: | IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. GET MEDICAL ATTENTION IMMEDIATELY. |
| Skin: | IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER. REMOVE AND ISOLATE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IMMEDIATELY. WASH CLOTHING SEPARATELY BEFORE REUSE. |
| Ingestion: | IF MATERIAL IS INGESTED, IMMEDIATELY CONTACT A POISON CONTROL CENTER. RINSE MOUTH. DO NOT INDUCE VOMITING WITHOUT ADVICE FROM POISON CONTROL CENTER. IF VOMITING OCCURS NATURALLY, HAVE VICTIM LEAN FORWARD TO REDUCE RISK OF ASPIRATION. DO NOT USE MOUTH-TO-MOUTH METHOD IF VICTIM INGESTED THE SUBSTANCE. INDUCE ARTIFICIAL RESPIRATION WITH THE AID OF A POCKET MASK EQUIPPED WITH A ONE-WAY VALVE OR OTHER PROPER RESPIRATORY MEDICAL DEVICE. |
| Inhalation: | MOVE TO FRESH AIR. OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. DO NOT USE MOUTH-TO-MOUTH METHOD IF VICTIM INHALED THE SUBSTANCE. INDUCE ARTIFICIAL RESPIRATION WITH THE AID OF A POCKET MASK EQUIPPED WITH A ONE-WAY VALVE OR OTHER PROPER RESPIRATORY MEDICAL DEVICE. GET MEDICAL ATTENTION IMMEDIATELY. |

V. FIRE FIGHTING MEASURES

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| Flash Point: | -156°F (-104.4°C) ESTIMATED |
| Extinguishing Agents: | WATER. WATER SPRAY. WATER FOG. ALCOHOL FOAM. DRY CHEMICAL. CARBON DIOXIDE (CO ₂). |
| Unusual Fire or Explosion Hazards: | VAPOR OR GAS MAY SPREAD TO DISTANT IGNITION SOURCES AND FLASH BACK. RUNOFF TO SEWER MAY CAUSE FIRE OR EXPLOSION HAZARD. |
| Fire Fighting Procedures: | IN THE EVENT OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES. WEAR FULL PROTECTIVE CLOTHING, INCLUDING HELMET, SELF-CONTAINED POSITIVE PRESSURE OR PRESSURE DEMAND BREATHING APPARATUS, PROTECTIVE CLOTHING AND FACE MASK. CONTAINERS SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD UP. FOR MASSIVE FIRE, USE UNMANNED HOSE HOLDERS OR MONITOR NOZZLES; IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA AND LET FIRE BURN. COOL CONTAINERS WITH FLOODING QUANTITIES OF WATER UNTIL WELL AFTER FIRE IS OUT. |

VI. ACCIDENTAL RELEASE MEASURES

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| Containment/Cleanup: | METHODS FOR CONTAINMENT ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). STOP LEAK IF YOU CAN DO SO WITHOUT RISK. MOVE THE CYLINDER TO A SAFE AND OPEN AREA IF THE LEAK IS IRREPARABLE. STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK. USE WATER SPRAY TO REDUCE VAPORS OR DIVERT VAPOR CLOUD DRIFT. PREVENT ENTRY INTO WATERWAYS, SEWERS, BASEMENTS OR CONFINED AREAS. METHODS FOR CLEAN UP SHOULD NOT BE RELEASED INTO THE ENVIRONMENT. USE |
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NON-COMBUSTIBLE MATERIAL LIKE VERMICULITE, SAND OR EARTH TO SOAK UP THE PRODUCT AND PLACE INTO A CONTAINER FOR LATER DISPOSAL. SMALL SPILLS: WIPE UP WITH ABSORBENT MATERIAL (E.G. CLOTH, FLEECE). CLEAN CONTAMINATED SURFACES THOROUGHLY. AFTER REMOVAL FLUSH CONTAMINATED AREA THOROUGHLY WITH WATER.

VII. HANDLING AND STORAGE

Other: HANDLING
PRESSURIZED CONTAINER: DO NOT PIERCE OR BURN, EVEN AFTER USE. DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. DO NOT USE IF SPRAY BUTTON IS MISSING OR DEFECTIVE. DO NOT GET THIS MATERIAL IN CONTACT WITH EYES. DO NOT GET THIS MATERIAL IN CONTACT WITH SKIN. AVOID PROLONGED EXPOSURE.

STORAGE
LEVEL 3 AEROSOL.
CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE OR CRUSH. THE PRESSURE IN SEALED CONTAINERS CAN INCREASE UNDER THE INFLUENCE OF HEAT. KEEP AWAY FROM HEAT, SPARKS, AND FLAME. AVOID EXPOSURE TO LONG PERIODS OF SUNLIGHT. STORE IN COOL PLACE. KEEP IN AN AREA EQUIPPED WITH SPRINKLERS. KEEP OUT OF THE REACH OF CHILDREN. DO NOT STORE, INCINERATE, OR HEAT THIS MATERIAL ABOVE 120 DEGREES FAHRENHEIT.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: WEAR CHEMICAL GOGGLES.

Skin: WEAR APPROPRIATE CHEMICAL RESISTANT GLOVES. WEAR APPROPRIATE CHEMICAL RESISTANT CLOTHING. WEAR CHEMICAL PROTECTIVE EQUIPMENT THAT IS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER.

Respiratory: WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA). IF PERMISSIBLE LEVELS ARE EXCEEDED USE NIOSH MECHANICAL FILTER / ORGANIC VAPOR CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: DARK BROWN COMPRESSED LIQUEFIED GAS.

Boiling Point: 278.6°F (137.2°C) ESTIMATED

pH: NOT APPLICABLE

Solubility in Water: NEGLIGIBLE

Specific Gravity: 0.777 ESTIMATED

Vapor Pressure: 38 – 48 PSIG @ 70°F

Physical State: LIQUID; FORM: AEROSOL

Other: FLAMMABILITY (HOC): 39.6479 KJ/G ESTIMATED
FLASH BACK: YES.

X. STABILITY AND REACTIVITY

Stability: RISK OF IGNITION.

Hazardous Decomposition NO HAZARDOUS DECOMPOSITION PRODUCTS ARE KNOWN.

Products:

Conditions To Avoid: HEAT, FLAMES, AND SPARKS.

XI. TOXICOLOGICAL INFORMATION

Acute Toxicology Data: ACUTE EFFECTS
ACUTE LD50: 1531 MG/KG ESTIMATED, RAT DERMAL

Special Hazard Information: SENSITIZATION:
NOT EXPECTED TO BE HAZARDOUS BY OSHA CRITERIA.
REPRODUCTIVE EFFECTS
NOT EXPECTED TO BE HAZARDOUS BY OSHA CRITERIA.
TERATOGENICITY
NOT EXPECTED TO BE HAZARDOUS BY OSHA CRITERIA.

XII. ECOLOGICAL INFORMATION

Environmental Fate and Distribution: COMPONENTS OF THIS PRODUCT HAVE BEEN IDENTIFIED AS HAVING POTENTIAL ENVIRONMENTAL CONCERNS.

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: CONTENTS UNDER PRESSURE. DISPOSE OF THIS MATERIAL AND ITS CONTAINER AT HAZARDOUS OR SPECIAL WASTE COLLECTION POINT. DO NOT INCINERATE SEALED CONTAINERS. DO NOT ALLOW THIS MATERIAL TO DRAIN INTO SEWERS/WATER SUPPLIES. IF DISCARDED, THIS PRODUCT IS CONSIDERED A RCRA IGNITABLE WASTE, D001. DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

RCRA Class: D001: WASTE FLAMMABLE MATERIAL*

Other: *WITH A FLASH POINT <140°F

XIV. TRANSPORT INFORMATION

D.O.T. Shipping Name: CONSUMER COMMODITY
D.O.T. Hazard Class: ORM-D

Other: PACKAGING EXCEPTIONS: 156,306
PACKAGING NON BULK: 156,306
PACKAGING BULK: NONE

XV. REGULATORY INFORMATION

EPA Sara Title III Chemical Listings: THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.
CERCLA/SARA HAZARDOUS SUBSTANCES- NOT APPLICABLE.
U.S. - CERCLA/SARA - SECTION 313- EMISSION REPORTING
2-BUTOXYETHANOL, CAS# 111-76-2; 1.0% DE MINIMIS CONCENTRATION (APPLIES TO R-(OCH₂CH₂)N-OR', WHERE N = 1,2, OR , R=ALKYL C7 OR LESS, OR R = PHENYL OR ALKYL SUBSTITUTED PHENYL, R'= H OR ALKYL C7 OR LESS, OR OR' CONSISTING OF CARBOXYLIC ACID ESTER, SULFATE, PHOSPHATE, NITRATE, OR SULFONATE, CHEMICAL CATEGORY N230)
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA):
29 CFR 1910.1200 HAZARDOUS CHEMICAL: YES.
CERCLA (SUPERFUND) REPORTABLE QUANTITY: NONE
SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)
HAZARD CATEGORIES:
IMMEDIATE HAZARD: YES
DELAYED HAZARD: YES
FIRE HAZARD: YES
PRESSURE HAZARD: YES
REACTIVITY HAZARD: NO
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE: NO.
SECTION 311 HAZARDOUS CHEMICAL: YES.

Pennsylvania: U.S.–PENNSYLVANIA–RTK (RIGHT TO KNOW) LIST
2–BUTOXYETHANOL: CAS# 111–76–2; PRESENT.
PROPANE: CAS# 74–98–6; PRESENT.
SYNTHETIC ISOPARAFFINIC HYDROCARBON: CAS# 64742–47–8; PRESENT.

Other: INVENTORY STATUS:
COUNTRY(S) OR REGION / INVENTORY NAME / ON INVENTORY (YES/NO)*
CHINA / INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA (IECSC) /
NO.
EUROPE / EUROPEAN INVENTORY OF NEW AND EXISTING CHEMICALS
(EINECS) / NO.
EUROPE / EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES (ELINCS) / NO.
JAPAN / INVENTORY OF EXISTING AND NEW CHEMICAL SUBSTANCES (ENCS) /
NO.
KOREA / EXISTING CHEMICALS LIST (ECL) / NO.
UNITED STATES AND PUERTO RICO / TOXIC SUBSTANCES CONTROL ACT
(TSCA) INVENTORY / YES*.
*A "YES" INDICATES THAT ALL COMPONENTS OF THIS PRODUCT COMPLY
WITH THE INVENTORY REQUIREMENTS ADMINISTERED BY THE GOVERNING
COUNTRY(S).

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION.
NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND
SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD
REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE
WHETHER
THEY ARE APPROPRIATE.