

# SAFETY DATA SHEET (S.D.S.)

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## PRODUCT AND COMPANY IDENTIFICATION

### Supplier

General Products & Supply, Inc.  
101 Technology Lane  
Export, PA 15632

**Phone:** 800-548-2050

**Product Name:** PENELUBE / M.D.

**Product Code:** LU605

**Revision Date:** 10/14/2015

**CAS Number:** Blend

For emergencies: 800-255-3924

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## HAZARDS IDENTIFICATION

GHS Signal Word:  
WARNING

GHS Hazard Pictograms:



GHS Classifications:

Physical, Flammable Liquids, 4  
Health, Acute toxicity, 4 Oral  
Health, Acute toxicity, 4 Dermal  
Health, Acute toxicity, 4 Inhalation  
Health, Serious Eye Damage/Eye Irritation, 2 A  
Health, Skin corrosion/irritation, 2

GHS Phrases:

H227 - Combustible liquid  
H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H332 - Harmful if inhaled  
H319 - Causes serious eye irritation  
H315 - Causes skin irritation

GHS Precautionary Statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P363 - Wash contaminated clothing before reuse.  
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.

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<b>3</b>	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>
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**Ingredients:**

Chemical Name	Percentage	CAS#
2-Butoxyethanol	>99.0	203-905-0

<b>4</b>	<b>FIRST AID MEASURES</b>
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<b>Inhalation:</b>	If vapors/mists generated by this product are inhaled, remove contaminated individual to fresh air. If necessary, use artificial respiration to support vital functions. SEEK IMMEDIATE MEDICAL ATTENTION.
<b>Skin Contact:</b>	If this product contaminates the skin, begin decontamination with running water. Minimum flushing is for 5 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The contaminated individual should seek medical attention if any adverse effect occurs.
<b>Eye Contact:</b>	If this product enter the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Remove contact lenses if worn. Have contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. Contaminated individual must seek medical attention if irritation develops or persists or if visual changes occur.
<b>Ingestion:</b>	If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow. SEEK IMMEDIATE MEDICAL ATTENTION.

<b>5</b>	<b>FIRE FIGHTING MEASURES</b>
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<b>Flash Point:</b>	72 C (161.6 F)
<b>Flash Point Method:</b>	COC
<b>Autoignition Temp:</b>	244 C (471.2 F)

Use fire extinguishing methods listed below:

Water Spray: Yes  
Carbon Dioxide: Yes  
Foam: Yes  
Dry Chemical: Yes  
Halon: Yes  
Other: Any "C" Class

Do not use water stream

FLAMMABLE LIMITS (in air by volume, %): Lower 1.1% Upper 10.6%

UNUSUAL FIRE AND EXPLOSION HAZARDS: Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire.

Explosion Sensitivity to Mechanical Impact: No  
Explosion Sensitivity to Static Discharge: Yes

OSHA/NFPA CLASSIFICATION: Class IIIA Combustible Liquid

**SPECIAL FIRE-FIGHTING PROCEDURES:** Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6	<b>ACCIDENTAL RELEASE MEASURES</b>
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**SPILL AND LEAK RESPONSE:** Evacuate unprotected personnel from the area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in section 8. Contain and recover liquid if possible. Use non-sparking tools and equipment. Cover or absorb spilled liquid with sand, earth or other inert material. Clean up spill immediately and place in appropriate containers. Do not discharge to sewers and surface waters. Notify authorities if entry occurs. Remove all sources of ignition.

U.S. Regulations (CERCLA) requires reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States

7	<b>HANDLING AND STORAGE</b>
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**Handling Precautions:** As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Keep locked up. Keep away from heat. Keep away from sources of ignition. Do not ingest. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Do not cut, weld, drill, grind, braze, or solder container.

**Storage Requirements:** Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Keep away from direct sunlight and heat and avoid all possible sources of ignition (spark or flame).

8	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**Engineering Controls:** All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

**Personal Protective Equip:** The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU memberstates.

**EYE PROTECTION:** Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area. Contact lenses pose a special hazard; Do not wear contact lenses.

If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

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**HAND PROTECTION:** Use chemically-resistant gloves when handling this product. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

**BODY PROTECTION:** Use body protection appropriate for task (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

Exposure Guidelines: 2-Butoxyethanol  
OSHA TWA: 50 ppm  
ACGIH TLV: 20 ppm

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Appearance:</b>	Clear	<b>Odor:</b>	Ether-like
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Completely miscible
<b>Spec Grav./Density:</b>	0.901 -0.904 @ 20°C	<b>Percent Volatile:</b>	100
<b>Vapor Pressure:</b>	0.6 @ 20°C (68°F)	<b>Vapor Density:</b>	4.1
<b>Evap. Rate:</b>	0.1	<b>UFL/LFL:</b>	LFL 1.1%, UFL 10.6%

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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**Stability:** Stable under conditions of normal storage and use.

**Conditions to Avoid:** Heat, flames, ignition sources and incompatibles.

**Materials to Avoid:** strong oxidizers, acids, bases, ammonia and chlorides.

**Hazardous Decomposition:** Carbon dioxide and carbon monoxide may form when heated to decomposition.

<b>11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**2-Butoxyethanol (111-76-2)**

Oral LD50, rat, 1746 mg/kg  
Skin LD50, rat, >2000 mg/kg

NTP Carcinogen  
Known: No  
Anticipated: No IARC  
category: Group 3

12	<b>ECOLOGICAL INFORMATION</b>
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ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

**ENVIRONMENTAL STABILITY:** Highly mobile in soil and likely to volatilize from moist or dry soil surfaces. Expected to volatilize from surface waters and not likely to adsorb to suspended solids and sediment in water.

**CHEMICAL EFFECT ON PLANTS, ANIMALS AND AQUATIC LIFE:** This material is not expected to be toxic to aquatic life.

13	<b>DISPOSAL CONSIDERATIONS</b>
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Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

14	<b>TRANSPORT INFORMATION</b>
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UN #: NA 1993, Class: -, Proper Shipping Name: Combustible liquid, n.o.s.

US DOT, IATA, IMO, ADR:

**U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:** This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

**PROPER SHIPPING NAME:** COMBUSTIBLE, LIQUID, N.O.S. (ETHYLENE GLYCOL MONOBUTYL ETHER)

**HAZARD CLASS NUMBER and DESCRIPTION:** Combustible liquid Class 3

**UN IDENTIFICATION NUMBER:** NA 1993

**PACKING GROUP:** PG III

**DOT LABEL(S) REQUIRED:** Combustible Liquid

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER:** 128

**RQ QUANTITY:** None

**MARINE POLLUTANT:** The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

**INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA):** This product is considered as dangerous goods.

**INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO):** This product is considered as dangerous goods.

**EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):** This product is considered by the United Nations Economic Commission for Europe to be dangerous goods.

15	<b>REGULATORY INFORMATION</b>
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**UNITED STATES REGULATIONS:**

**U.S. SARA REPORTING REQUIREMENTS:** The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

**U.S. TSCA INVENTORY STATUS:** The components of this product are listed on the TSCA Inventory or are exempted from listing.

**OTHER U.S. FEDERAL REGULATIONS:** None

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**STATE REGULATIONS:**

Pennsylvania RTK: Glycol Ether EB: (environmental hazard, generic environmental hazard)

Massachusetts RTK: Glycol Ether EB

New Jersey: Glycol Ether EB

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** Ingredient(s) within this product are not on the Proposition 65 Lists.

**RCRA 40 CFR:** None

**CANADIAN REGULATIONS:**

**CANADIAN DSL/NDL INVENTORY STATUS:** The components of this product are on the DSL Inventory, or are exempted from listing.

**OTHER CANADIAN REGULATIONS:** Not applicable.

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:**

**WHMIS:** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**CANADIAN WHMIS CLASSIFICATION:** CLASS B - DIVISION 3, Combustible Liquid, CLASS D-2B: Material causing other toxic effects.

**EUROPEAN ECONOMIC COMMUNITY INFORMATION:**

**EU LABELING AND CLASSIFICATION:** This product meets the definition of the following hazard class as defined by the European Economic Community Guidelines.

**EU CLASSIFICATION:** [F] Flammable, [Xn] Harmful, [Xi] Irritant

**EU RISK PHRASES:** R10: Flammable; R20/21/22: Harmful by inhalation, in contact with skin and if swallowed; R36/38: Irritating to eyes and skin.

**EU SAFETY PHRASES:** S36/37: Wear suitable protect clothing and gloves; S45: In case of an accident or if you feel unwell, seek medical advice immediately; S53: Avoid exposure.

**AUSTRALIAN INFORMATION FOR PRODUCT:** The components of this product are listed on the International Chemical Inventory list.

**JAPANESE INFORMATION FOR PRODUCT:**

**JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:** The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

**JAPANESE ENCS INVENTORY:** The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

**POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW:** No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

**INTERNATIONAL CHEMICAL INVENTORIES:**

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

Swiss Giftlist List of Toxic Substances: Listed

U.S. TSCA: Listed

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## OTHER INFORMATION

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