



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 960
Product name Peni-Lube Penetrating Oil
Effective date 14-Nov-2007
Company information Claire Manufacturing
500 Vista Ave.
Addison, IL 60101 United States
Company phone General Assistance 630-543-7600
Emergency telephone US 800-424-9300
Emergency telephone outside US 703-527-3887
Version # 4.0
Supersedes date 07-Aug-2007

2. Hazards Identification

Emergency overview FLAMMABLE
CONTENTS UNDER PRESSURE.
Aerosol. Pressurized container may explode when exposed to heat or flame.

OSHA regulatory status Harmful in contact with eyes. May be harmful if absorbed through skin. Prolonged exposure may cause chronic effects.
This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects
Routes of exposure Skin contact. Inhalation. Eye contact.
Eyes Contact may irritate or burn eyes. Eye contact may result in corneal injury.
Skin Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful.
Ingestion Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause delayed lung damage.

Target organs Kidney.
2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been observed in humans.

Chronic effects Blood. Central nervous system. Liver. Respiratory system.
Unconsciousness. Conjunctiva. Liver injury may occur. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage.

Signs and symptoms Discomfort in the chest. Corneal damage. Narcosis. Cyanosis. Liver enlargement. Jaundice. Conjunctivitis. Defatting of the skin. Irritation.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Mineral Spirits	64742-48-9	20 - 30
Propane	74-98-6	8 - 10
2-Butoxyethanol	111-76-2	8 - 10
Non-hazardous and other components below reportable levels		40 - 60

4. First Aid Measures

First aid procedures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.
Skin contact	Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention immediately. Wash clothing separately before reuse.
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.
Ingestion	Do not induce vomiting without medical advice. 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.
Notes to physician	Symptoms may be delayed.
General advice	Immediate medical attention is required.

5. Fire Fighting Measures

Flammable properties	Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back.
Extinguishing media	
Suitable extinguishing media	Water. Water spray. Water fog. Alcohol foam. Dry chemical. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Protection of firefighters	
Protective equipment and precautions for firefighters	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.

6. Accidental Release Measures

Personal precautions	Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.
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. Use water spray to reduce vapors or divert vapor cloud drift.
Methods for cleaning up	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

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. Use only with adequate ventilation. 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. Avoid exposure to long periods of sunlight. Keep in an area equipped with sprinklers. Keep out of the reach of children. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Mineral Spirits	64742-48-9	100 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
2-Butoxyethanol	111-76-2	20 ppm	Not established	Not established

OSHA**Components****CAS #****TWA****STEL****Ceiling**

Mineral Spirits

64742-48-9

500 ppm

Not established

Not established

Propane

74-98-6

1000 ppm

Not established

Not established

2-Butoxyethanol

111-76-2

50 ppm

Not established

Not established

Engineering controls

Provide adequate ventilation.

Personal protective equipment**Eye / face protection**

Wear chemical goggles.

Skin protection

Wear appropriate chemical resistant gloves. Wear chemical protective equipment that is specifically recommended by the manufacturer.

Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA).

General hygiene considerations

When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties**Appearance**

Compressed liquefied gas.

Color

Dark brown.

Odor

odourless

Physical state

Liquid.

Form

Aerosol.

Flammability (HOC)

41.04 kJ/g estimated

Flash back

No

Pressure

27 - 37 psig @70F

Solubility

Negligible

Flash point

-156 °F (-104.4 °C) estimated

Boiling point

222.8 °F (106.1 °C) estimated

Specific gravity

0.777 estimated

pH

Not applicable

10. Chemical Stability & Reactivity Information**Chemical stability**

Risk of ignition. Stable at normal conditions.

Conditions to avoid

Heat, flames and sparks.

Hazardous decomposition products

May include oxides of oxides of carbon.

11. Toxicological Information**Acute effects**Acute LD50: 3160 mg/kg estimated, Rat, Oral
Acute LD50: 1495 mg/kg estimated, Rat, Dermal
Acute LC50: 7 mg/l/4h estimated, Rat, Inhalation**Sensitization**

Not expected to be hazardous by OSHA criteria.

Local effects

Contact may irritate or burn eyes. Liver toxicity. Blood disorder may occur after ingestion. Components of the product may be absorbed into the body through the skin.

Chronic effects

Hazardous by OSHA criteria. This product may be harmful if it is absorbed through the skin. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

Subchronic effects

Kidney injury may occur. Blood disorder may occur after prolonged inhalation. Blood disorder may occur after prolonged skin contact.

Neurological effects

Hazardous by OSHA criteria.

Mutagenicity

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.

Epidemiology

Hazardous by OSHA criteria.

12. Ecological Information**Ecotoxicity**

LC50 150 mg/L, Fish, 96.00 Hours,
EC50 10464 mg/L, Daphnia, 48.00 Hours,
Components of this product have been identified as having potential environmental concerns.

13. Disposal Considerations**Waste codes**

D001: Waste Flammable material with a flash point <140 F

Disposal instructions

Contents under pressure. Incinerate the material under controlled conditions in an approved incinerator. 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.

14. Transport Information**Department of Transportation (DOT) Requirements****Basic shipping requirements:**

Proper shipping name Consumer commodity

Hazard class ORM-D

Subsidiary hazard class None

Additional information:

Packaging exceptions 156, 306

Packaging non bulk 156, 306

Packaging bulk None

IMDG**Basic shipping requirements:**

Proper shipping name AEROSOLS, flammable

Hazard class 2.1

UN number 1950

Additional information:

Packaging exceptions LTD QTY

Item 5F

Labels required 2.1

Transport Category 2

**IATA****Basic shipping requirements:**

Proper shipping name Aerosols, flammable

Hazard class 2.1

UN number 1950

Additional information:

Packaging exceptions LTD QTY

**15. Regulatory Information****US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

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 & 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)

State regulations**U.S. - Pennsylvania - RTK (Right to Know) List**

2-Butoxyethanol	111-76-2	Present
Propane	74-98-6	Present

16. Other Information**HMIS® ratings**

Health: 1*
Flammability: 4
Physical hazard: 0

Prepared by

Regulatory Compliance

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

Issue date

14-Nov-2007