# MSDS on letura pungo MATERIAL SAFETY DATA SHEET

# SUPERIOR

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## 1. Product and Company Identification

**Material name** 

**B-0108 Solvent Blend** 

Version #

Ω1

**Revision date** 

08-03-2012

CAS#

Mixture

**Product code** 

0300067

**Manufacturer information** 

Superior Oil Company, Inc.

1402 North Capitol Avenue, Suite #100 Indianapolis, IN 46202 United States

Information (317) 781-4400 Emergency (317) 781-4400

#### 2. Hazards Identification

**OSHA** regulatory status

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

**Routes of exposure** 

Inhalation. Ingestion. Skin contact. Eye contact.

Eyes

Causes eye irritation. Avoid contact with eyes.

Skin

Irritating to skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort

and dermatitis. Avoid contact with the skin.

Inhalation

Irritating to respiratory system. Overexposure to vapors or mist may cause irritation to the respiratory system. Repeated Inhalation of high levels of vapors or mist of Ethylene Glycol for

prolonged periods of time may also result in toxic effects.

**Ingestion** 

Ingestion of ethylene glycol may result in nausea, vomiting, abdominal cramps, blindness, liver damage, irritation, reproductive effects, nerve damage, convulsions, edema of the lung,

cardiopulmonary effects (metabolic acidosis), pneumonia and kidney failure which could result in

death. The single lethal dose for humans is about 100 ml.

Target organs

Central nervous system. Kidneys, Liver, Respiratory System. Skin.

Chronic effects

Edema. Jaundice. 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. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility. Frequent or prolonged contact may defat and dry the skin,

leading to discomfort and dermatitis.

Signs and symptoms

Narcosis. Decrease in motor functions. Behavioral changes. Edema. Liver enlargement. Jaundice. Proteinuria. Irritation of eyes and mucous membranes. Irritating to mouth, throat, and stomach.

Defatting of the skin. Skin irritation. Rash. Birth defects.

#### 3. Composition / Information on Ingredients

Components	CAS #	Percent	
Ethylene Glycol	107-21-1	90 - 100	
Inhibitor	Mixture	< 5	

## 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. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact

Wash off with warm water and soap. Get medical attention if irritation develops and persists. Take

off contaminated clothing and wash before reuse.

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Inhalation

Move to fresh air. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms

develop or persist.

Ingestion

Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If ingestion of a large amount does occur, call a poison control center immediately.

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Notes to physician

Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire Fighting Measures

Flammable properties

Not flammable by OSHA criteria. Not combustible by OSHA criteria.

Extinguishing media

Suitable extinguishing

media

Water fog. Carbon dioxide (CO2). Alcohol resistant foam. Powder.

Unsuitable extinguishing

media

Water. Do not use water jet as an extinguisher, as this will spread the fire.

**Protection of firefighters** 

Protective equipment and precautions for firefighters

Wear suitable protective equipment.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Hazardous combustion

products

May include oxides of nitrogen.

## 6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them.

Methods for containment

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Methods for cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean contaminated surface thoroughly. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

## 7. Handling and Storage

Handling

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling.

Storage

Keep away from heat, sparks and open flame. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Use care in handling/storage.

## 8. Exposure Controls / Personal Protection

## Occupational exposure limits

## **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Ethylene Glycol (107-21-1)	Ceiling	100 mg/m3	Aerosol.

**Engineering controls** 

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection Avoid contact with eyes. Chemical goggles are recommended. Eye wash fountain is recommended.

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Skin protection

Avoid contact with the skin. Wear appropriate chemical resistant clothing. Chemical resistant

gloves.

Respiratory protection

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

General hygiene considerations

Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Handle in

accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

**Appearance** 

Clear.

**Physical state** 

Liquid.

Form

Liguid.

Color

Blue.

Odor

None.

**Boiling point** 

212 °F (100 °C) approx.

Flash point

232 °F (111.1 °C) (Ethylene Glycol)

**Evaporation rate** 

< 1 (Butyl Acetate = 1)

Specific gravity

1.120

Vapor pressure

1.08 hPa (1 hPa = 0.75006 mmHg)

Vapor density

> 1 (Air = 1)

Solubility (water)

Complete.

VOC

94.51 % approx.

Other data

Pounds per gallon

9.3341 lb/gal

# 10. Chemical Stability & Reactivity Information

Chemical stability

Stable under normal conditions.

**Conditions to avoid** 

Extreme heat will ignite in air @ 748 F. Do not store at temperatures above 120 F. Avoid

extremely high temperatures.

Incompatible materials

Strong oxidizers. Strong acids.

Carbon monoxide, carbon dioxide and other toxic gas.

**Hazardous decomposition** 

on

products

Possibility of hazardous

reactions

Will not occur.

# 11. Toxicological Information

#### Toxicological data Components

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## **Test Results**

Ethylene Glycol (107-21-1)

Acute Dermal LD50 Rabbit: 9530 mg/kg

Acute Oral LD50 Cat: 1650 mg/kg
Acute Oral LD50 Dog: 5500 mg/kg
Acute Oral LD50 Dog: > 8.81 g/kg
Acute Oral LD50 Guinea pig: 8.2 g/kg
Acute Oral LD50 Mouse: 14.6 g/kg
Acute Oral LD50 Rat: 5.89 g/kg
Acute Other LD50 Mouse: 5.8 g/kg

Acute Other LD50 Rat: 2800 mg/kg

Sensitization

Not available.

Local effects

Components of the product may be absorbed into the body through the skin. Liver toxicity.

Irritating to respiratory system. Irritating to eyes. Irritating to skin.

**Chronic effects** 

Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause

disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause

chronic effects.

Subchronic effects

Kidney injury may occur.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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#### **ACGIH Carcinogens**

Ethylene Glycol (CAS 107-21-1)

A4 Not classifiable as a human carcinogen.

Skin corrosion/irritation

Irritating to skin. Not available. Hazardous by OSHA criteria.

**Epidemiology** 

Mutagenicity

Not available.

**Neurological effects** 

Hazardous by OSHA criteria.

Reproductive effects

Hazardous by OSHA criteria. Possible reproductive hazard. Can cause adverse reproductive effects

- such as birth defects, miscarriages, or infertility.

**Teratogenicity** 

Not available.

**Further information** 

Reproductive toxicity. Symptoms may be delayed.

## 12. Ecological Information

Ecotoxicological data

Components **Test Results** LC50 Fathead minnow (Pimephales promelas): 8050 mg/l 96 Ethylene Glycol (107-21-1) hours

Persistence and degradability

Not available.

#### 13. Disposal Considerations

**Disposal instructions** 

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### 14. Transport Information

#### **DOT BULK:**

**Basic shipping requirements:** 

**UN number** 

Proper shipping name

Environmentally hazardous substances, liquid, n.o.s., (Ethylene Glycol)

Hazard class

Ш

**Packing group** 

Reportable Quantity:

5319 lbs.

**ERG** code

171

#### DOT NON-BULK:

Not regulated in a container less than 119 gallons.

#### 15. Regulatory Information

US federal regulations

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

29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

## Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)

Not regulated

#### **DEA Essential Chemical Code Number**

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### **DEA Exempt Chemical Mixtures Code Number**

Not regulated

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

ETHYLENE GLYCOL (CAS 107-21-1)

1.0 %

Listed.

#### **CERCLA (Superfund) reportable quantity**

Ethylene Glycol: 5000

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** 

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

Section 311 hazardous

No

chemical

#### **Inventory status**

Country(s) or region	Inventory name On inventory (yes/	/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (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
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico *A "Yes" indicates that all com	Toxic Substances Control Act (TSCA) Inventory ponents of this product comply with the inventory requirements administered by the governing country(s)	Yes

#### State regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **US - New Jersey RTK - Substances: Listed substance**

Ethylene Glycol (CAS 107-21-1)

Listed.

## US - Pennsylvania RTK - Hazardous Substances: Listed substance

Ethylene Glycol (CAS 107-21-1)

Listed.

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## 16. Other Information

**Further information** 

HMIS® is a registered trade and service mark of the NPCA.

**HMIS®** ratings

Health: 2Flammability: 1Physical hazard: 0

NFPA ratings

Health: 2Flammability: 1Instability: 0

Disclaimer

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**Issue date** 

08-03-2012

This data sheet contains changes from the previous version in section(s):

This document has undergone a significant changes and should be reviewed in its entirety.

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