natural
BULK SUPPLIES

SAFETY DATA SHEET
PROPYLENE GLYCOL

1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Propylene Glycol

Company: Natural Bulk Supplies, 318 Half Day Rd, # 348,
Buffalo Grove, IL 60089 Phone: 847-489-7180

Emergency Contact: Infotrac: 800-535-5053(North America) +1-352-323-3500 (International)

2. HAZARD IDENTIFICATION

Classification of substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]:
Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC:
Not classified

Label Elements

NFPA Code:
Health-0
Flammability-1
Reactivity-0

HMIS Code:
Health-0
Flammability-1
Reactivity-0

Other Hazards
These substances/mixtures do not meet the PBT/vPvB criteria of REACH, annex XIII.
Prolonged/repetitive skin contact may cause skin defatting or dermatitis; ingestion may have laxative effect.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

INCI NAME	CAS NO.	CONCENTRATION (%)
Propylene Glycol	57-55-6	30 – 100%
Water	-	< 70%

4. FIRST AID MEASURES

Eye Contact
In case of eye contact, immediately flush eyes with cool water for at least 20 minutes, retracting eyelids often. Obtain emergency medical information if pain, blinking, tears or redness persists.

Skin Contact
Wash exposed area of skin with water. If burned by contact with hot material, cool material as quickly as possible with water. See a physician for burn treatment, irritation or allergic reaction.

Ingestion
Material is of sufficiently low toxicity that induction of vomiting isn't necessary.

Inhalation
Remove to fresh air. If unconscious, seek medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media
Dry chemical, carbon dioxide, foam, steam or water fog. Agents approved for Class B hazards

Unsuitable Extinguishing Media
Water streams will scatter liquid and spread fire, but may be used to keep fire-exposed containers and surroundings cool.

Special Hazards
May create dense smoke during combustion. Heat from fire can generate flammable vapor. When mixed with air and exposed to an ignition source, vapors may burn in open or can explode if confined. Vapors may travel long distances along the ground before igniting and flashing back to the source. Fine sprays/mists may be combustible at temperatures below normal flash point. Incomplete burning can produce carbon monoxide and/or carbon dioxide and other toxic gases.

Fire Hazard
Mild fire hazard when heated above its flash point; material must be preheated before ignition will occur (OSHA Class IIIB).

Advise for firefighters
Cool unaffected containers and remove to safety

Firefighter Protection
Firefighters should wear self-contained breathing apparatus in the positive-pressure mode with a full headpiece when there is a possibility of exposure to smoke, fumes, or hazardous combustion products.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Wear appropriate breathing apparatus, protective clothing gloves and eye/face protection. No smoking. Refer to section 8.

Emergency Procedures
Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces.

Environmental precautions
Prevent spills from entering sewers and public waters.

Methods for Clean-up and Containment
Dike around spill; use oil-absorbent materials such as sand or soil. Remove mechanically or contain on an absorbent material such as dry sand or earth and dispose of in accordance with current applicable regulations

7. HANDLING AND STORAGE

Safe Handling
No special requirements other than standard safety glasses and protective clothing (i.e. lab coat) are required.

Safe Storage
Store in a cool, well-ventilated area in sealed containers Do not store in open or unlabeled containers. Store away from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

OSHA PEL
Not established

ACGIH TLV
Not established

AIHA WEEL
50 ppm TWA (vapor) 10 mg/m3 (mist)

Exposure Controls

General
Control airborne concentrations below the exposure guidelines. Provide local exhaust or general room ventilation to minimize vapor concentrations. Provide emergency eye wash fountains and safety showers.

Eye
Wear safety glasses.

Skin
Wear protective gloves/clothing

Inhalation
Avoid breathing mist. If ventilation is inadequate, use NIOSH/MSHA certified respirator to protect against mist.

Environmental Controls
Avoid release to the environment. Notify authorities if product enters sewers or public waters.

9. PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	C3H8O2
Appearance / Odor:	Colorless viscous liquid / Little to odorless
pH:	Not determined
Vapor Pressure:	< 0.08 mmHg @ 20°C (68°F)
Vapor Density (Air=1):	2.6
Boiling Point:	369°F (187°C)
Melting Point:	-76°F (-60°C)
Solubility:	Soluble in water
Specific Gravity (Water=1):	1.035 - 1.037 @ 25°C/25°C (77°F)
Viscosity (Brookfield):	46 cps @ 25°C (77°F)
Pour Point:	Not applicable
Flash Point / Method:	214°F minimum / Tag Closed Cup
Autoignition temperature:	700°F

Flammable limits:	LEL (% vol. in air): 2.35 UEL (% vol. in air): 13.7

10. STABILITY AND REACTIVITY

Reactivity
Unknown

Chemically Stability
Stable

Hazardous Reactions
Hazardous polymerization will not occur

Conditions to avoid
Extreme heat; contact with chlorine, fluorine, and other strong oxidizers and acids

Incompatible Materials
Chlorine, fluorine, and other strong oxidizers and acids

Hazardous Decomposition Product
Incomplete burning can produce carbon monoxide and/or carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Routes of entry
Absorbed through skin and eye contact.

Toxicity

Dermal (rabbits):
LD50 20.8 g/kg

Oral (rabbits):
LD50 15.7 - 19.2 g/kg

Inhalation (rabbits):
LD50 65.8 ppm/8 hours

Eye Irritation (rabbits):
Slight

Skin Irritation (rabbits):
None

Skin sensitization (human):
Slight

Carcinogenicity:
Testing not conducted. See Other Toxicity Data

Other toxicity data
High concentrations of propylene glycol in water when held in contact with human skin under closed conditions have been reported to cause skin irritation (Cosmetics and Toiletries 99:83-91, 1984). The authors attribute the observations to a sweat retention reaction by skin. No reactions were observed in open patch tests with human subjects.

12. ECOLOGICAL INFORMATION

Toxicity
See section 12: Other information as provided to us

Persistence / Degradability
No data available

Bioaccumulation Potential
No data available

Mobility in Soil
No data available

PBT / vPvB assessment
No data available

Other adverse effects
No data available

Other Information
It has the following properties: a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to persist in the environment and a low potential to bio-concentrate. It is expected to have the following properties: a low potential to affect secondary waste treatment microbial respiration, a low potential to affect secondary waste treatment microbial metabolism, a low potential to affect the germination and/or early growth of some plants, a low potential to affect the growth of some plant seedlings, a high potential to biodegrade (low persistence) with microorganisms from activated sludge. After dilution with a large amount of water, followed by secondary waste treatment, this material is not expected to cause adverse environmental effects.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods
Disposal must be in accordance with applicable federal, state, or local regulations. "Empty" drums should not be given to individuals.

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14. TRANSPORT INFORMATION

General Information
Not regulated by U.S. DOT, Canadian TODG, IMO/IMDG, ICAO/IATA, ADR/RID

15. REGULATORY INFORMATION

CERCLA Sections 102A/103 Hazardous Substances (40 CFR Part 302.4):
Not reportable

SARA Title III Section 302/304 Extremely Hazardous Substances (40 CFR Part 355):
Not regulated

SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370):
Not applicable

SARA Title III Section 313 (40 CFR Part 372):
None

U.S. Inventory (TSCA):
Listed

Carcinogenicity Classification
Not listed by ACGIH, IARC, NTP, or OSHA.

EC Inventory (EINECS/ELINCS):
Listed (No. 2003380)

Japan Inventory (MITI):
Listed

Australia Inventory (AICS):
Listed

Canada Inventory (DSL):
Listed

California Prop 65:
Not Listed

California (SCAQMD) Rule 443.1 (VOC's):
Listed

Massachusetts Substance List:
Not listed

New Jersey Registration:
Not applicable

Pennsylvania Hazardous Substances
Propylene Glycol

Chemical Safety Assessment
Incomplete

16. OTHER INFORMATION

All statements, technical information and recommendations contained herein are based on tests and data which Natural Bulk Supplies believes to be currently reliable, but this accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this company or others covering any process, composition of matter or use. Since we shall have no control of the use of the product described here in, we assume no Liability for loss or damage incurred from the proper or improper use of such product.