

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Name: Glycol Ether PNB

Synonym(s): Butoxypropanol; n-Butoxy-2-propanol; 1-Butoxy-2-propanol; Propylene glycol monobutyl ether; Propylene glycol n-butyl ether

REACH Registration Number: No data available at this time.

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Industrial applications

Uses advised against: None known

1.3 Details of the supplier and of the safety data sheet

Manufacturer/Distributor

Silver Fern Chemical, Inc.
2226 Queen Anne Avenue North
Suite C
Seattle, WA 98109 USA
1-866-282-3384

Website - www.silverfernchemical.com; email address - info@silverfernchemical.com

1.4 Emergency telephone number: INFO-TRAC +1-800-535-5053; Outside USA & Canada +1-352-323-3500

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Product definition: Substance

Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation EC No. 1272/2008

Flammable liquid - Category 4 [H227]

Skin irritation - Category 2 [H315]

Eye irritation - Category 2A [H319]

2.2 Label Elements

Hazard Symbol(s):



GHS02 GHS07

Signal Word:

Warning

Hazard Statement(s):

H227 - Combustible liquid
H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary Statements:

[Prevention]

P210 - Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P264 - Wash hands and other skin areas exposed to material thoroughly after handling.
P280 - Wear protective gloves, protective clothing and eye protection.

[Response]

P302 + P353 - IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment: Seek medical attention if you feel unwell. Refer to Section 4 of this SDS.
P332 + P337 + P313 - If skin irritation occurs or if eye irritation persists: Get medical attention.
P362 - Take off contaminated clothing and wash before reuse.

[Storage]

P370 + P378 - IN CASE OF FIRE: Use water fog or spray, carbon dioxide, foam or dry chemical for extinguishing.
P403 + 235 - Store in well-ventilated place. Keep cool.

[Disposal]

P501 - Dispose of contents and containers in accordance with national and local regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None known

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

| % by Weight | Ingredient | CAS Number | EC Number | Annex Number | GHS Classification |
|-------------|-------------------|------------|-----------|--------------|--------------------|
| >95.0 | Butoxypropanol | 5131-66-8 | 225-878-4 | 603-052-00-8 | H227, H315, H319 |
| >5.0 | Butoxy-1-propanol | 15821-83-7 | 605-138-0 | ----- | ----- |

There are no ingredients present in this product which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

3.2 Mixtures

Not applicable

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product mist or vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. If unconscious, maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If irritation persists or if the victim feels unwell, seek medical attention.

Eyes: Immediately flush eyes with large amounts of water or saline solution for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after first 2 minutes and continue rinsing. If irritation persists, seek medical advice, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash the affected area with soap and water and continue rinsing. Wash contaminated clothing and shoes thoroughly before reuse. If irritation persists, seek medical attention.

Ingestion: Rinse mouth with water if the victim is conscious. Remove dentures, if present. DO NOT induce vomiting unless directed to do so by medical personnel. Vomiting may occur spontaneously. To prevent aspiration of material into the lungs, lay the victim on one side with the head lower than the waist. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Seek medical attention if the victim feels unwell or if a large quantity of material has been swallowed.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Causes severe eye irritation with inflammation, pain and tearing. May cause corneal injury. Vapor may cause eye irritation or corneal injury.

Skin: May cause moderate skin irritation with localized redness, itching and discomfort. Prolonged contact may cause defatting of the skin and dermatitis.

Inhalation: Inhalation of mist or vapor may cause irritation of the upper respiratory tract. May be harmful if inhaled. Symptoms may include depression of the central nervous.

Ingestion: May cause irritation of the digestive tract with nausea, vomiting and diarrhea. May be harmful if swallowed. May cause depression of the central system with effects similar to those of inhalation.

Chronic: Prolonged or repeated skin contact may cause defatting of the skin and dermatitis.

4.3 Indication of any immediate medical attention and special treatment needed

Advice to Doctor and Hospital Personnel

Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Use extinguishing media such as water spray or fog, carbon dioxide, foam and dry chemical.

Unsuitable methods of extinction: Water jets or streams may spread the fire or cause violent steam eruptions.

5.2 Special hazards arising from the substance or mixture

Combustible liquid. Vapors are heavier than air and can travel along the ground to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Exposure to ignition sources can ignite vapors, causing a flash fire. Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

Explosion hazards: Avoid sources of ignition. Violent steam generation may occur upon application of direct water stream to hot liquids.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control runoff water to prevent environmental contamination.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Ventilate the area. Remove all sources of ignition. Wear appropriate protective clothing and equipment designated in Section 8.

6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Clean up spills immediately. Cover drains and contain spill. Cover spill with a large quantity of inert absorbent. Do not use combustible material such as sawdust. Collect material using non-sparking tools and place into an approved container(s) for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Do not allow material or runoff from rinsing contaminated areas to enter floor drains or storm drains and ditches that lead to waterways. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

For indications about waste treatment, see Section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear all appropriate personal protective equipment specified in Section 8. Do not get in eyes or on skin or clothing. Do not inhale mist or vapor. No smoking. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator.

Advice on protection against fire and explosion

Avoid sources of ignition. Vapors may form an explosive mixture with air, especially in confined spaces.

7.2 Conditions for safe storage, including any incompatibilities

Store in dry, cool, well-ventilated areas away incompatible materials (see Section 10.5), food and drink. Keep away from heat and ignition sources. Transfer only to approved containers having correct labeling. Keep containers tightly closed when not in use. Protect containers against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent spillage. Containers are hazardous when empty as they contain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limits.

8.2 Exposure controls

Engineering measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, smoking or using the lavatory.

Eye/face protection: Wear safety glasses with unperforated side shields or protective splash goggles during use.

Hand Protection: Wear gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Skin protection: Wear protective clothing. Wear protective boots if the situation requires.

Respiratory protection: Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Environmental exposure controls: Do not empty into drains.

PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.



SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|----------------|-------------------------|
| Appearance | Clear, colorless liquid |
| Odor | Ether-like |
| Odor Threshold | No data available |

| | |
|---|---|
| Chemical Formula | C ₇ H ₁₆ O ₂ |
| pH | No data available |
| Freezing/Melting Point, Range | < -80 °C (< -112 °F) |
| Initial Boiling Point | 171 °C (340 °F) @ 760 mm Hg |
| Evaporation Rate | No data available |
| Flammability (solid, gas) | Not applicable |
| Flash Point | 63 °C (145 °F), closed cup |
| Autoignition Temperature | 260 °C (500 °F) |
| Decomposition Temperature | No data available |
| Lower Explosive Limit (LEL) | 1.1% (v) |
| Upper Explosive Limit (UEL) | 8.4% (v) |
| Vapor Pressure | 0.85 mm Hg @ 20 °C |
| Vapor Density | 4.6 (Air = 1) <i>literature</i> |
| Specific Gravity | 0.878 @ 25 °C |
| Viscosity | 2.8 mPa.s at 20 °C |
| Solubility in Water | 5.5% @ 25 °C <i>literature</i> |
| Partition Coefficient: n-octanol/water | log Pow = 0.98 |
| Oxidizing Properties | Not applicable |
| Explosive Properties | Not applicable |
| Volatiles by Weight @ 21 °C | 100% |

9.2 Other data

No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

No special reactivity has been reported.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Temperature extremes, sources of ignition, contact with incompatible materials

10.5 Incompatible materials

Strong bases, strong acids, strong oxidizing agents

10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon, aldehydes, ketones, organic acids.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity

LD₅₀, rat - 3,300 mg/kg (male and female)

Acute inhalation toxicity

LC₅₀, rat - 3.5 mg/l, 4 h; no deaths occurred at this concentration

Acute dermal toxicity

LD₅₀, rat - >2,000 mg/kg (male and female)

Skin irritation

Causes skin irritation.

Eye irritation

Causes serious eye irritation.

Sensitization

No data available

Genotoxicity in vitro

No data available

Mutagenicity

No data available

Specific organ toxicity - single exposure

No data available

Specific organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available



11.2 Further information

No component of this product present at levels greater than or equal to the 0.01% threshold (de minimis) is identified as a probable, possible, potential or confirmed carcinogen by IARC, ACGIH, NTP or OSHA.

No data is available regarding the mutagenicity or teratogenicity of this product, nor is there any available data that indicates it causes adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

Material is practically non-toxic to aquatic organisms on an acute basis.

Acute and prolonged toxicity to fish: LC₅₀ - *Poecilia reticulata* (Guppy), 96 h: > 560 - 1,000 mg/l

Toxicity to aquatic invertebrates: EC₅₀ - *Daphnia magna* (Water flea), 48 h: >1,000 mg/l

Toxicity to aquatic plants: ErC₅₀ - *Pseudokirchneriella subcapitata* (green algae), 72 h: >1,000 mg/l (growth rate inhibition)

Toxicity to microorganisms: IC₅₀ - Bacteria, 3 h: >1,000 mg/l

12.2 Persistence and degradability

This material is readily biodegradable.

12.3 Bioaccumulation potential

This material has low potential to bioaccumulate.

12.4 Mobility in soil

Potential for mobility in soil is very high.

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Additional ecological information

Do not allow material to run into surface waters, wastewater or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

RCRA P-Series: No listing

RCRA U-Series: No listing

SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

Not regulated for transport in non-bulk packages having a maximum capacity less than or equal to 450 liters (119 gallons).

US DOT (Domestic Ground Transportation) - BULK

Proper Shipping Name: Combustible liquid, n.o.s. (Butoxypropanol)

Hazard Class: Comb liq

UN/NA: NA1993

Packing Group: III

NAERG: Guide #128

Packaging Authorization: Non-Bulk: 49 CFR 173.202; Bulk: 173.242

Packaging Exceptions: 49 CFR 173.150

IMO/IMDG (Water Transportation)

NOT REGULATED FOR TRANSPORT

Consult IMO regulations before transporting ocean bulk

ICAO/IATA (Air Transportation)

NOT REGULATED FOR TRANSPORT

RID/ADR (Rail Transportation)

NOT REGULATED FOR TRANSPORT

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CFR 1910-1200.

OSHA Process Safety Management Standard: This product is not regulated under OSHA PSM Standard 29 CFR 1910.119.

EPA Risk Management Planning Standard: This product is not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

EPA Federal Insecticide, Fungicide and Rodenticide Act: This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

Toxic Substance Control Act (TSCA) Inventory: All of the components of this product are listed on the TSCA Inventory. It is not subject to TSCA 12(b) Export Notification.

Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.4(f)(2) and Chemical Code Number
No listing

Drug Enforcement Administration (DEA) List s1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c)) and Code Number
No listing

Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (CFATS) Chemicals
No listing

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: Fire Hazard, Acute Health Hazard

SARA 313 Information: None of the components of this product are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains no CERCLA reportable substances.

Clean Air Act (CAA)

This product does not contain Hazardous Air Pollutants (HAPs) designated in CAA Section 112(b).

This product does not contain any Class 1 Ozone depleters.

This product does not contain any Class 2 Ozone depleters.

Clean Water Act (CWA)

This product does not contain Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

This product contains no chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

Other U.S. State Inventories

None of the components of this product are listed on any State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists.

Canada

WHMIS Hazard Symbol and Classification



B3 - Flammable liquid with flash points greater than 38 °C (100 °F) but inferior to 93 °C (199.4 °F)



D2B - Toxic material causing other toxic effects - eye irritation and eye irritation in animals

Canadian National Pollutant Release Inventory (NPRI): None of the chemicals in this product are listed on the NPRI.

European Economic Community

WGK, Germany (Water danger/protection): 1

Global Chemical Inventory Lists

| Country | Inventory Name | Inventory Listing* |
|----------------|--|--------------------|
| Canada: | Domestic Substance List (DSL) | Yes |
| Canada: | Non-Domestic Substance List (NDSL) | No |
| Europe: | Inventory of New and Existing Chemicals (EINECS) | Yes |
| United States: | Toxic Substance Control Act (TSCA) | Yes |
| Australia: | Australian Inventory of Chemical Substances (AICS) | Yes |
| New Zealand: | New Zealand Inventory of Chemicals (NZIoC) | Yes |
| China: | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Japan: | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea: | Existing Chemicals List (ECL) | Yes |
| Philippines: | Philippines Inventory of Chemicals and Chemical Substances (PICCS) | Yes |

*Yes - All components of this product are in compliance with the inventory requirements administered by the governing country.

No - One or more components of this product are not on the inventory or are exempt from listing.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

| | |
|---------------------|---|
| Health | 1 |
| Flammability | 2 |
| Physical Hazard | 0 |
| Personal Protection | C |

HMIS Hazard Rating Legend

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious
4 = Severe * = Chronic Health Hazard

NFPA Hazard Rating Legend

0 = Insignificant 1 = Slight 2 = Moderate
3 = High 4 = Extreme

National Fire Protection Association (NFPA)

Flammability



Special

Abbreviation Key

| | |
|------------------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ADR | Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road) |
| CAS | Chemical Abstract Services |
| CFR | Code of Federal Regulations |
| DOT | Department of Transportation |
| EMS Guide | Emergency Response Procedures for Ships Carrying Dangerous Goods |
| EPA | Environmental Protection Agency |
| ERG | Emergency Response Guide Book |
| FDA | Food and Drug Administration |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals (GHS) |
| HCS | Hazard Communication Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association half maximal |
| ICAO | International Civil Aviation Organization |
| IDLH | Immediately Dangerous to Life and Health |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| mppcf | Millions of Particles Per Cubic Foot |
| NA | North America |
| NAERG | North American Emergency Response Guide Book |
| NIOSH | National Institute for Occupational Safety |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PBT | Persistent, Bioaccumulating and Toxic |
| PEL | Permissible exposure limit |
| PMCC | Pensky-Martens Closed Cup |
| ppm | Parts Per Million |
| RCRA | Resource Conservation and Recovery Act |
| RID | Dangerous Goods by Rail |
| RQ | Reportable Quantity |
| TCC/Tag | Tagliabue Closed Cup |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substance Control Act |
| TWA | Time-weighted Average |
| UN | United Nations |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and Very Bioaccumulating |
| WHMIS | Workplace Hazardous Materials Information System |

DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

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Effective Date: 08 March 2019
Supersedes: 21 September 2017

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Safety Data Sheet
Glycol Ether PNB



| | |
|--------------|--|
| TSCA | Toxic Substance Control Act |
| TWA | Time-weighted Average |
| UN | United Nations |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and Very Bioaccumulating |
| WHMIS | Workplace Hazardous Materials Information System |

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