

# SILVER FERN CHEMICAL



## Safety Data Sheet

### Glycol Ether DPNB

#### SECTION 1: IDENTIFICATION

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**Product Name:** Glycol Ether DPNB

**CAS Number:** 29911-28-2

**Chemical Name:** Dipropylene glycol monobutyl ether

**Synonyms:** Dipropylene glycol monobutyl ether; 1-(2-butoxy-1-methylethoxy)-2-propanol; n-butoxypropoxypropanol; dipropylene glycol n-butyl ether

**Uses:** Coupling agent and solvent in household and industrial cleaners, grease and paint removers, metal cleaners, and hard surface cleaners. Effective coupling agent and efficient solvent for water-reducible coatings. Effective coalescent in water-borne coatings. Active solvent for solvent-based coatings. Chemical intermediate for the production of epoxides, acid ester derivatives, solvents, and plasticizers.

**Company**

Silver Fern Chemical, Inc.  
2226 Queen Anne Avenue North  
Suite #C  
Seattle WA 98109, USA

**Business Contact**

Customer Service: 1-866-282-3384  
[info@silverfernchemical.com](mailto:info@silverfernchemical.com)

**24 Hour Emergency Contact**

Infotrac 800-535-5053  
Outside USA & Canada 352-323-3500

#### SECTION 2: HAZARD IDENTIFICATION

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**Warning**



H227: Combustible liquid

H320: Causes eye irritation

H316: Causes mild skin irritation

H305: May be harmful if swallowed and enters airways

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## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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CAS #	Content (W/W)	Hazardous Ingredients
29911-28-2	>99.0%	Glycol Ether DPNB

## SECTION 4: FIRST AID MEASURES

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IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention.

IF IN EYES: Remove contact lenses if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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## SECTION 5: FIRE FIGHTING MEASURES

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**Flash Point:** 100 ° C / 213 ° F

### Extinguishing Media

**Suitable:** SMALL FIRE: Use dry chemicals, CO<sub>2</sub>, water spray or alcohol-resistant foam

LARGE FIRE: Use water spray, water fog or alcohol-resistant foam

**Unsuitable:** Do not use solid water stream.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**Personal precautions:** Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighter's protective clothing will only provide limited protection.

**Environmental precautions:** In the event of a spill, the focus is on containing the spill to prevent contamination of soil, ditches, sewers, waterways, or groundwater. For small spills, DPNB should be absorbed with sand or vermiculite. Collect the material in suitable and properly labeled containers.

**Further information:** Industrial spills or releases are infrequent and generally contained. If a large spill does occur, contain spilled material if possible. Pump into suitable and properly labeled containers using appropriate safety equipment.

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## SECTION 7: HANDLING AND STORAGE

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**Storage:** Store in cool, dry, well-ventilated area away from heat, ignition sources, and direct sunlight. Keep containers tightly closed. **WARNING:** Hot organic chemical vapors or mists can suddenly and without warning combust when mixed with air.

**Handling:** Wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles face shield, and gloves. Professionally launder contaminated clothing before re-use.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### Personal Protective Equipment (PPE)

**Respiratory protection:** Avoid breathing vapor and/or mists. Wear approved equipment. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator.

**Hand protection:** Wear appropriate impervious gloves.

**Eye protection:** Wear chemical splash goggles. An eye wash facility should be readily available.

**Body protection:** Wear appropriate protective clothing.

**General safety and hygiene measures:** Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Promptly remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.

**Threshold Limit Values (TLV):** N/A

**Permissible Exposure Limits (PEL):** N/A

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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Appearance:	Colorless and transparent liquid
Solubility:	Soluble in water
Boiling Point:	222-232°C
Density:	0.913 g/mL at 25 °C(lit.)
Refractive Index:	n <sub>20</sub> /D 1.426(lit.)
Flash Point:	100.0°C (Close Cup)
Viscosity:	4.61 (25°C)
Surface Tension:	28.2 (25°C)
Relative density:	1.57 (g/mL, Air=1)

## SECTION 10: STABILITY AND REACTIVITY

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**Conditions to avoid:** Extended contact with air or oxygen. The potential for peroxide formation is enhanced when these solvents are used in processes such as distillation. Heat, sparks, open flame, other ignition sources, and oxidizing conditions. Ignition may occur at temperatures below those published in the literature as autoignition or ignition temperatures.

**Substances to avoid:** Air or oxygen. Strong acids. Strong oxidizing agents.

**Hazardous reactions:** Not expected to occur.

**Decomposition products:** Incomplete combustion may produce carbon monoxide and other toxic gases.

## SECTION 11: TOXICOLOGICAL INFORMATION

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### Acute Toxicity - Lethal Doses

<u>LD50</u>	Rat	3700 - 4400
	Mouse	2,160 MG/KG

<u>LD50</u> (Skin)	Rabbit.	5157 MG/KG
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### Target Organ Effects

Eye.

### Carcinogenicity

Not listed by IARC, NTP, or OSHA.

## SECTION 12: ECOLOGICAL INFORMATION

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**Bioaccumulation:** probably not a bioaccumulator due to moderately high water solubility

**Biodegradation:** one test showed 0% biodegradation in 28 days, another 49% biodegradation under the same test conditions (OECD 301D), both in domestic sewage sludge and another (modified OECD) showed 91% in 28 days and 60% in 10 days\*

**Abiotic Degradation:** not known -no data available

**Mobility in soil, water:** water soluble; moves readily in soil and water

### Aquatic Toxicity

LC50 (Fish, 96hr) 841mg/litre (Poecilia reticulata)\*

LC50 (Crustacea, 48hr) >1000mg/litre (Daphnia magna) - only 2 of 20 individuals lost swimming ability after 48hr\*

EC50 (Algæ) 556mg/litre ("green algae") - predicted from ECOSAR modelling\*

EC100 (Bacteria) >1.56mg/litre (Salmonella typhimurium)\*

\* OECD SIDS Initial Assessment Report November 2003

## SECTION 13: DISPOSAL CONSIDERATIONS

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**Waste disposal of substance:** do not flush to sewer, recycle solvent if possible, local regulations may permit disposal in sanitary landfill, may be incinerated in approved facility.

### Container disposal:

Drums should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.

Pails must be vented and thoroughly dried prior to crushing and recycling.

IBCs (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5yrs). Steel containers must be inspected; pressure tested & recertified every 5 years.

Never cut, drill, weld or grind on or near this container, even if empty

## SECTION 14: TRANSPORT INFORMATION

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Canada TDG	PIN	UN - not regulated for transport
AND	Shipping Name	not regulated for transport
U.S.A. 49 CFR	Class & Packing Group	not regulated for transport
Marine Pollutant		not a marine pollutant
ERAP Required		NO

*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.*

## SECTION 15: REGULATORY INFORMATION

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### SARA 302/304

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA.

### SARA 311/312

Based upon available information, this material is not classified as a health and/or physical hazard according to Section 311 & 312.

### SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels established by SARA Title III, Section 313 and 40 CFR 372.

**Massachusetts Substances List (MSL)** - Extraordinarily hazardous substances must be identified when present in materials at levels greater than state specified criterion. The criterion is  $\geq 0.0001\%$ . Hazardous Substances (MSL-HS) on the MSL must be identified when present in materials at greater than the state specified criterion. The criterion is  $\geq 1\%$ . Components with CAS numbers present in this material, at levels specified in Section 2 - Composition do not require reporting under the statute.

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

## SECTION 16: OTHER INFORMATION

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### DISCLAIMER OF RESPONSIBILITY

The information on this MSDS 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 responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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