



Material Safety Data Sheet (MSDS) - Butyl Carbitol

SECTION 1: IDENTIFICATION

Product Name: 2-(2-Butoxyethoxy)ethanol

Catalog Codes: SLB3091

CAS#: 112-34-5 **RTECS**: KJ9100000

TSCA: TSCA 8(b) inventory: 2-(2-Butoxyethoxy)ethanol

CI#: Not applicable.

Synonym : BUCB, Dowanol DB, Ektasolve DB, Jeffersol DB, Poly-Solv DB; Butyl carbitol; Diethylene Glycol Monobutyl Ether; Diethylene glycol nbutyl ether; Diglycol monobutyl ether;

Butyl dioxitol; Glycol ether DB; O-Butyl diethylene glycol

Chemical Name: 2-(2-butoxyethoxy) ethanol

Chemical Formula: C4-H9-O-(CH2)2-O-(CH2)2-O-H

COMPANY IDENTIFICATION

Supplier: PURE CHEMICALS CO.

CHENNAI, TAMILNADU, INDIA

24 Hour Health Emergency (91) 8939878447

(91) 9444038694

Transportation Emergency (91) 9444038517

Phone

Compa	any Name	Place	EMERGENCY TELEPHONE NUMBER
Pure	Chemicals	CHENNAI	Day Emergency - 044-26161803-
Co.			26161809

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

Name CAS # % by Weight

{2-(2-}Butoxyethoxy) ethanol 112-34-5 100

SECTION 3: HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Page 1 of 8 MSDS – Butyl Carbitol





Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

The substance may be toxic to blood, kidneys, liver, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 4: FIRST AID MEASURES

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

Skin Contact:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical Serious Skin Contact: Attention if irritation develops. Cold water may be used. Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability of the Product: Combustible.

Auto-Ignition Temperature : 227.78°C (442°F)

Flash Points : CLOSED CUP : 78°C (172.4°F).

OPEN CUP: 100°C (212°F) (Cleveland).

Flammable Limits: LOWER: 0.85% UPPER: 24.6%

Products of Combustion: These products are carbon oxides (CO, CO2).

Page 2 of 8 MSDS – Butyl Carbitol





Fire Hazards in Presence of Various Substances: Flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: COMBUSTIBLE

Special Remarks on Explosion Hazards: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION 7: HANDLING AND STORAGE

Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing

Page **3** of **8** MSDS – Butyl Carbitol





agents.

Storage:

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves (impervious).

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance : Liquid. (Liquid.)

Odor: Characteristic Faint Butyl odor (Slight.)

Taste: Not available.

Molecular Weight: 162.23 g/mole

Color: Colorless.

pH (1% soln/water): 7 [Neutral.]

Boiling Point : 230.4°C (446.7°F)

Melting Point : -68.1 (-90.6°F)

Critical Temperature: Not available.

Specific Gravity : 0.9536 (Water = 1)

Vapor Pressure: 0 kPa (@ 20°C)

Page 4 of 8 MSDS – Butyl Carbitol





Vapor Density: 5.58 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 0.6

Ionicity (in Water): Not available.

Dispersion Properties : See solubility in water, diethyl ether, acetone.

Solubility: Easily soluble in diethyl ether, acetone. Soluble (miscible) in cold water, hot water.

SECTION 10: STABILITY AND REACTIVITY

Stability: The product is stable.

Instability Temperature : Not available.

Conditions of Instability: Excess heat, ignition sources (flames, sparks), incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Toxicity to Animals: NA

Acute oral toxicity (LD50): 2000 mg/kg [Guinea pig]. Acute dermal toxicity

(LD50): 2700 mg/kg [Rabbit.].

Chronic Effects on Humans : May cause damage to the following organs: blood, kidneys, liver, central nervous system (CNS).

Other Toxic Effects on Humans:

Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Special Remarks on Toxicity to Animals : Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Page **5** of **8** MSDS – Butyl Carbitol





Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: Causes skin irritation with redness. It does not appear to be absorbed through intact skin in toxic amounts. Causes moderate eye irritation. May cause conjunctivitis and transient corneal injury. Inhalation: Inhalation for brief periods has no significant effect. May cause respiratory tract and mucous membrane irritation. Remote possibility of pulmonary edema Ingestion: May cause gastrointestinal tract irritaiton with abdominal pain, headache, nausea, vomiting, and diarrhea. May affect behavior/central nervous system, (general anesthetic, central nervous system depression), blood/bone marrow (intravascular hemolysis adn bone marrow depression), respiration (tachypnea, hyperventilation), urinary system/ kidneys (uremia, transient polyuria and then oliquria, anuria, acute renal failure, acute tubular necrosis), liver, spleen. Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may affect metabolism (weight loss), behavior, blood (pigmented or nucleated red blood cells), brain, central nervous system. Other symptoms may include acidosis, and cyanosis (bluish discoloration of the skin due to deficient oxygenation of the blood), and quick shallow breathing.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation:

The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

Page 6 of 8

MSDS - Butyl Carbitol

Introduced date:01.05.2022

Revision date:01.05.2025





DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not available.

SECTION 15: REGULATORY INFORMATION

Federal and State Regulations:

TSCA 8(b) inventory: 2-(2-Butoxyethoxy)ethanol TSCA 8(a) IUR: 2-(2-

Butoxyethoxy)ethanol

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing

Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):

CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C

(200°F). CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):

R36- Irritating to eyes. S2- Keep out of the reach of children. S24- Avoid contact with skin. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 2

Reactivity: 0

Personal Protection: j

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 2

Reactivity: 0

Specific hazard: NA

Protective Equipment: Gloves (impervious), Lab coat, Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate, Splash goggles.

Page **7** of **8**

MSDS - Butyl Carbitol

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SECTION 16: OTHER INFORMATION

Disclaimer:

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