

TCI AMERICA SAFETY DATA SHEET

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Diethylene Glycol Monobutyl Ether

Product code: B0699

Product use:For laboratory research purposes.Restrictions on use:Not for drug or household use.

Company: TCI America

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Chemical Emergencies:

TCI America (8:00am - 5:00pm) PST

+1-503-286-7624

Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

+1-703-527-3887 (International)
Responsible department:

TCI America

Environmental Health Safety and Security

+1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Eye Damage/Irritation [Category 2A] WHMIS 2015: Flammable Liquids [Category 4]

Signal word: Warning!

Hazard Statement(s): Combustible liquid

Causes serious eye irritation

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

[Prevention] Keep away from flames and hot surfaces. – No smoking. Wash hands and face thoroughly after

handling. Wear protective gloves, eye protection.

[Response] If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

[Storage] Store in a well-ventilated place. Keep cool.

[Disposal] Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:

[HNOC]

May be harmful if in contact with skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: Diethylene Glycol Monobutyl Ether

 Percent:
 >99.0%(GC)

 CAS RN:
 112-34-5

 Molecular Weight:
 162.23

 Chemical Formula:
 C8H18O3

Synonyms: 2-(2-Butoxyethoxy)ethanol, Butyl Carbitol

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

advice/attention if you feel unwell.

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation Skin contact:

or rash occurs: Get medical advice/attention.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Eye contact:

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell. Rinse mouth. Ingestion:

Symptoms/effects:

Acute: Redness.

Delayed: No data available

Indication of any immediate medical attention:

Not available. Notes to physician: No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water in large amounts, carbon dioxide.

Hazardous combustion products:

These products include: Carbon oxides Other specific hazards: Closed containers may explode from heat of a fire.

Advice for firefighters: Wear self-contained breathing apparatus if possible.

ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off,

Environmental precautions:

Prevent product from entering drains.

Methods and materials for containment

and cleaning up:

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly

disposed of, in accordance with appropriate laws and regulations.

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use Prevention of secondary hazards:

spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

Precautions for safe handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent

generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after

handling.

Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.

Avoid contact with skin, eyes and clothing.

Confirm in advance if peroxides exist when operations involving heating such as distillation are carried

out.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Storage conditions:

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

ACGIH TLV(TWA): 10 ppm (IFV)

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed

system or local exhaust as possible so that workers should not be exposed directly. Also install safety

shower and eye bath.

Personal protective equipment

Vapor respirator. Follow local and national regulations. Respiratory protection:

Hand protection: Protective gloves.

Safety glasses. A face-shield, if the situation requires. Eye protection: Protective clothing. Protective boots, if the situation requires. Skin and body protection:

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid
Form: Clear
Colour: Colorless

Odour: Slight Characteristic
Odor threshold: No data available
Odour threshold: No data available

Melting point/freezing point:-68°C (-90°F)pH:No data availableBoiling point/range:230°C (446°F)Vapour pressure:No data available

Decomposition temperature: No data available Vapour density: 5.

Relative density: 0.96 Dynamic Viscosity: No data available
Kinematic viscosity: No data available

Log Pow: No data available Evaporation rate(Butyl No data available

Pow: No data available Evaporation rate(Bi

Flash point: 78°C (172°F) Autoignition temperature: 223°C (433°F)

Flammability(solid, gas): No data available Flammability or explosive limits:

Lower: 0.8% Upper: 9.4%

Solubility(ies):

[Water] Miscible [Other solvents]

Very soluble:Ether, Alcohols, AcetoneSoluble:Benzene, Many organic solvents

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: May form explosive peroxides.

Possibility of hazardous reactions: No special reactivity has been reported.

Conditions to avoid: Open flame, Air Incompatible materials: Oxidizing agents, Acids

Hazardous decomposition products: Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

RTECS Number: KJ9100000

Acute Toxicity:

ipr-mus LD50:850 mg/kg orl-mus LD50:2400 mg/kg orl-rat LD50:5660 mg/kg skn-rbt LD50:2700 mg/kg

Skin corrosion/irritation:

No data available

Serious eye damage/irritation:

eye-rbt 20 mg SEV

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity: No data available

IARC: No data available NTP: No data available OSHA: No data available

Reproductive toxicity:

No data available

Target organ(s): No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: No data available
Crustacea: No data available
Algae: No data available

Persistence / degradability: 92% (by BOD), 98% (by TOC), 100% (by GC)

Bioaccumulative potential(BCF):

Mobility in soil

2

 Log Pow:
 0.56

 Soil adsorption (Koc):
 50

 Henry's Law (PaM ³/mol):
 1.3 x 10³

13. DISPOSAL CONSIDERATIONS

Disposal of product:

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for

Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not

be allowed to enter the environment, drains, water ways, or the soil.

Disposal of container:

Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) Non-hazardous for transportation.

<u>IATA</u> Non-hazardous for transportation.

IMDG Non-hazardous for transportation.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:
SARA 313:
Not Listed
SARA 302:
Not Listed

State Regulations
State Right-to-Know

Massachusetts
New Jersey
Pennsylvania
California Proposition 65:
Not Listed
Not Listed
Not Listed

Other Information

NFPA Rating:HMIS Classification:Health:2Health:2Flammability:2Flammability:2Instability:0Physical:0

International Inventories

Canada: DSL On DSL **EC-No:** 203-961-6

16. OTHER INFORMATION

Revision date: 07/06/2018 Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.