

Revision number: 1.1 Revision date: 07/06/2018

TCI AMERICA SAFETY DATA SHEET

roduct name: roduct code:	Ethylene Glycol Mono-tert-butyl Ether E0354	
roduct use: estrictions on use:	For laboratory research purposes. Not for drug or household use.	
Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com		Emergency telephone number: 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 Securit +1- 503-286-7624
2. HAZARD(S) IDENTIFICATION		
DSHA Haz Com: CFR 1910.1200: VHMIS 2015:	Specific Target Organ Toxicity (Single Exposure Specific Target Organ Toxicity (Repeated Expos Flammable Liquids [Category 3]) [Category 3] ure) [Category 1]
Signal word:	Danger!	
lazard Statement(s):	Flammable liquid and vapor May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure: Blood System	
Pictogram(s) or Symbol(s):		
Pictogram(s) or Symbol(s):		
	closed. Ground and bond container and receivin and lighting equipment. Use only non-sparking to discharge. Do not breathe mist, vapors or spray. eat, drink or smoke when using this product. Wa	not surfaces. – No smoking. Keep container tightly g equipment. Use explosion-proof electrical, ventilat pols. Take precautionary measures against static Use only outdoors or in a well-ventilated area. Do n sh hands and face thoroughly after handling. Wear
Precautionary Statement(s):	 closed. Ground and bond container and receivin and lighting equipment. Use only non-sparking to discharge. Do not breathe mist, vapors or spray. eat, drink or smoke when using this product. Wa protective gloves, eye protection. If on skin (or hair): Take off immediately all containhaled: Remove person to fresh air and keep con if you feel unwell. Get medical advice or attention 	g equipment. Use explosion-proof electrical, ventilat bols. Take precautionary measures against static Use only outdoors or in a well-ventilated area. Do n sh hands and face thoroughly after handling. Wear aminated clothing. Rinse skin with water or shower. I bomfortable for breathing. Call a poison center or doct n if you feel unwell.
Precautionary Statement(s): [Prevention]	 closed. Ground and bond container and receivin and lighting equipment. Use only non-sparking to discharge. Do not breathe mist, vapors or spray. eat, drink or smoke when using this product. Wa protective gloves, eye protection. If on skin (or hair): Take off immediately all containhaled: Remove person to fresh air and keep con if you feel unwell. Get medical advice or attention Store in a well-ventilated place. Keep container 	g equipment. Use explosion-proof electrical, ventilat bols. Take precautionary measures against static Use only outdoors or in a well-ventilated area. Do n sh hands and face thoroughly after handling. Wear aminated clothing. Rinse skin with water or shower. I bomfortable for breathing. Call a poison center or doct n if you feel unwell.

Hazards not otherwise classified [HNOC]

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms:	Substance Ethylene Glycol Mono-tert-butyl Ether >99.0%(GC) 7580-85-0 118.18 C ₆ H ₁₄ O ₂ 2-tert-Butoxyethanol , tert-Butyl Cellosolve	
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. Call a POISON	
Skin contact:	CENTER or doctor/physician if you feel unwell. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.	
Eye contact: Ingestion:	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/attention. Get medical advice/attention if you feel unwell. Rinse mouth.	
Symptoms/effects:		
Acute: Delayed:	No data available No data available	
Indication of any immediate medical atte Not available. Notes to physician: No data available	ention:	
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media:	Dry chemical, foam, water in large amounts, carbon dioxide.	
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Closed containers may explode from heat of a fire.	
Advice for firefighters:	Wear self-contained breathing apparatus if possible.	
6. ACCIDENTAL RELEASE MEASU	RES	
Personal precautions, protective equipment and emergency procedures:	Use extra personal protective equipment (self-contained breathing apparatus). 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, etc.	
Environmental precautions: Methods and materials for containment and cleaning up:	Prevent product from entering drains. Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be	
Prevention of secondary hazards:	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. 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 heat/sparks/open flame/hot surfacesNo smoking. 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.
Conditions for safe storage, including a	
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up.
Packaging material:	Store away from incompatible materials such as oxidizing agents. Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Almost colorless No data available No data available No data available	5	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	No data available 152°C (306°F) No data available 0.90 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available
Flash point: Flammability(solid, gas):	55°C (131°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available
Solubility(ies): [Water] [Other solvents] Soluble:	Miscible Alcohols		

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. No special reactivity has been reported. Spark, Open flame, Static discharge Oxidizing agents, Acids, Bases Carbon dioxide, Carbon monoxide

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11. TOXICOLOGICAL INFORMATIC	DN
RTECS Number: KJ8750000	
Acute Toxicity: ihl-rat LCLo:2400 ppm/5H	ipr-mus LD50:1328 mg/kg
Skin corrosion/irritation: No data available	
Serious eye damage/irritation: No data available	
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	
	olonged or repeated exposure: Blood System
12. ECOLOGICAL INFORMATION	
Ecotoxicity: Fish: Crustacea: Algae:	96h LC50:>100 mg/L (Oryzias latipes) 48h EC50:>1000 mg/L (Daphnia magna) 72h EC50:>870 mg/L (Selenastrum capricornutum)
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	6 % (by BOD) , 0 % (by TOC) , 68 % (by GC) No data available
Log Pow: Soil adsorption (Koc): Henry's Law (PaM ³/mol):	0.36 No data available No data available
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: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) UN number: UN3271	Proper Shipping Name: Ethers, n.o.s	Class or Division: 3 Flammable liquid	Packing Group:
IATA UN number: UN3271	Proper Shipping Name: Ethers, n.o.s	Class or Division : 3 Flammable liquid	Packing Group:
IMDG UN UN3271 numb er:	Proper Shipping Name: Ethers, n.o.s	Class or Division: 3 Flammable liquid	Packing Group:
EmS number:	F-E, S-D		

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

ous substance	e and Reportable Quantity:	
	Not Listed	
	Not Listed	
S		
low		
tts	Not Listed	
	Not Listed	
a	Not Listed	
sition 65:	Not Listed	
<u>1</u>		
		HMIS Classificati
0		Health:
2		Flammability:
0		Physical:
	<u>5</u> ow a sitts 1 0 2	Not Listed Not Listed

International Inventories

16. OTHER INFORMATION

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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.

Classification:

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