

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

1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on 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

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:

Signal word:

Toxic to Reproduction [Category 1B] Flammable Liquids [Category 3]

Diethylene Glycol Dimethyl Ether

For laboratory research purposes.

Not for drug or household use.

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SAFETY DATA SHEET

Danger!

B0498

Hazard Statement(s):

Flammable liquid and vapor May damage fertility or the unborn child

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

[Prevention]

[Response]

[Storage]

[Disposal]

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, protective clothing, face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If exposed or concerned: Get medical advice or attention. Store in a well-ventilated place. Keep cool. Store locked up. 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 form explosive peroxides.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms: Substance Diethylene Glycol Dimethyl Ether >99.0%(GC) 111-96-6 134.18 C₆H₁₄O₃ Bis(2-methoxyethyl) Ether , Diglyme , Dimethylcarbitol 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 Security +1- 503-286-7624

Hand protection: Eye protection:

Skin and body protection:

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. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.		
Skin contact:			
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.		
Ingestion:	Get medical advice/attention.Rinse mouth.		
Symptoms/effects:	No. dote our Table		
Acute: Delayed:	No data available No data available		
Indication of any immediate medical atte	ention:		
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.		
6. ACCIDENTAL RELEASE MEASU	RES		
Personal precautions, protective	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from		
equipment and emergency procedures:	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:	Prevent product from entering drains.		
Methods and materials for containment and cleaning up:	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		
C .	promptly disposed of, in accordance with appropriate laws and regulations.		
Prevention of secondary hazards:	Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use 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		
i recaliente fer care nanamig.	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 all contact! Confirm in advance if peroxides exist when operations involving heating such as distillation are carried		
	out.		
Conditions for safe storage, including a Storage conditions:	iny incompatibilities Keep container tightly closed. Store in a cool, dark and well-ventilated place.		
otorage conditions.	Store under inert gas. Protect from moisture. Store locked up.		
	Store away from incompatible materials such as oxidizing agents. Hygroscopic Air-sensitive		
Packaging material:	Comply with laws.		
8. EXPOSURE CONTROLS / PERSC	DNAL 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:	Imperious dioves.		

Impervious gloves. Safety goggles. A face-shield, if the situation requires.

Impervious protective clothing. Protective boots, if the situation requires.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Almost colorl Slight Ether-like No data available No data available	ess					
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	-68°C (-90°F) 162°C (324°F) No data available 0.95 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. 4.6 No data available No data available				
Flash point: Flammability(solid, gas):	50°C (122°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	190°C (374°F) 1.5% 17.4%				
Solubility(ies): [Water] [Other solvents] Miscible:	Miscible Ether, Alcohols	оррег.	17.470				
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: Spark, Open flame, Static discharge, Air Incompatible materials: Oxidizing agents, Strong acids, Strong bases Hazardous decomposition products: Carbon dioxide, Carbon monoxide 11. TOXICOLOGICAL INFORMATION							
RTECS Number: KN3339000							

Acute Toxicity: orl-rat LD50:5400 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: dlt-rat-ihl 1000 ppm/5D-C

Carcinogenicity: No data available

IARC: No data available

NTP: No data available

Reproductive toxicity: orl-rat TDLo:500 mg/kg (11D preg)

ihl-rat TCLo:1100 ppm/6H (2W male)

OSHA:

No data available

ihl-rat LC50:>11000 mg/m3/7H

sln-dmg-ihl 250 ppm/165M

Target organ(s):

No data available

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12. ECOLOGICAL INFORMATION

Ecotoxicity: Fish:		No data available				
FISN: Crustacea:		No data available				
Algae:		No data available				
Aigae.						
Persistence / degradability: 0 % (by BOD), 2 % (by TO			2 % (by TOC) , 1 % (by GC)			
Bioaccumulative	potential(BCF):	3	}			
Mobility in soil						
Log Pow:		-0.36				
Soil adsorp		15 5 2 × 40-2				
Henry's La	w (PaM ³/mol):	5.3 x 10 ⁻²				
	CONSIDERATIONS					
Disposal of produ	JCT:	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 solver and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section 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 be allowed to enter the environment, drains, water ways, or the soil.				
Disposal of container: Dispose of a			used product. Do not re-use e ral, state and local regulations	empty containers. s when disposing of the substance.		
14. TRANSPOR	T INFORMATION					
DOT (US)						
UN number: UN3271	Proper Shipping N Ethers, n.o.s	ame:	Class or Division: 3 Flammable liquid	Packing Group: III		
IATA UN number: UN3271	Proper Shipping N a Ethers, n.o.s	ame:	Class or Division: 3 Flammable liquid	Packing Group: III		
IMDG UN UN3271 numb er:	Proper Shipping Na Ethers, n.o.s	ame:	Class or Division: 3 Flammable liquid	Packing Group: III		
EmS number:		F-E. S-D				

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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 Hazardo	ous substance and	Reportable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulation: State Right-to-Kn			
Massachuse	its	Not Listed	
New Jersey		Not Listed	
Pennsylvania	à	Not Listed	
California Proposition 65:		Not Listed	
Other Information	<u>n</u>		
NFPA Rating:			HMIS Classification:
Health:	0		Health:
Flammability:	2		Flammability:
Instability:	0		Physical:
International Inve	entories		
Canada: DSL		On DSL	
EC-No:		203-924-4	

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.