

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

### 1. IDENTIFICATION

Product name:	Dimethoxymethane
Product code:	D0637
Product use:	For laboratory research purposes.
Restrictions on use:	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	
2. HAZARD(S) IDENTIFICATION	

#### 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

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Specific Target Organ Toxicity (Single Exposure) [Category 3] Flammable Liquids [Category 2]
Signal word:	Danger!
Hazard Statement(s):	Highly flammable liquid and vapor Causes skin irritation Causes serious eye irritation May cause respiratory irritation. May cause drowsiness or dizziness.
Pictogram(s) or Symbol(s):	
Precautionary Statement(s): [Prevention]	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. Avoid breathing mist, vapors or spray. Use only outdoors or in a well-ventilated area. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection.
[Response]	If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and

keep comfortable for breathing. Call a poison center or doctor if you feel unwell. 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. In case of fire: Use dry chemical, dry

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

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

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SAFETY DATA SHEET

[Storage] [Disposal]

May form explosive peroxides.

sand or foam to extinguish.

Hazards not otherwise classified: [HNOC]

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# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula:	Substance Dimethoxymethane >98.0%(GC) 109-87-5 76.10 C <sub>3</sub> H <sub>8</sub> O <sub>2</sub> Dimethylformol Formol Formoldohydo Dimethyl Acetal Methylol Methylono Chycel Dimethyl Ether
Synonyms:	Dimethylformal , Formal , Formaldehyde Dimethyl Acetal , Methylal , Methylene Glycol Dimethyl Ether

# 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
	CENTER or doctor/physician if you feel unwell.
Skin contact:	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:	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.
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.
Symptoms/effects:	
Acute:	Dizziness. Redness. Drowsiness.
Delayed:	May have effects on the respiratory tract.
Indication of any immediate medical	attention:
Not available.	

Notes to physician: No data available

# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, carbon dioxide.
Unsuitable extinguishing media:	Water (It may scatter and spread fire.)
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 MEASURES

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:	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 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
-	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.
	Confirm in advance if peroxides exist when operations involving heating such as distillation are carried
	out.
Conditions for safe storage, including	any incompatibilities
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place.
C C	Store under inert gas. Protect from moisture. Store locked up.
	Store away from incompatible materials such as oxidizing agents.
	Heat-sensitive Hydroscopic
Packaging material:	Comply with laws.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: ACGIH TLV(TWA): OSHA PEL(TWA):	1000 ppm 1000 ppm
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 Chloroform-like No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity:	No data available 42°C (108°F) No data available 0.87 No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity:	No data available No data available. 2.6 No data available
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	-32°C(-26°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	237°C (459°F) 1.6% 17.6%
Solubility(ies): [Water] [Other solvents] Miscible: Soluble: 10. STABILITY AND REACT	Soluble (33g/100mL, 20°C) Ether, Alcohols, Oils Benzene, Acetone		

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products:

No data available May form explosive peroxides. No special reactivity has been reported. Spark, Open flame, Static discharge, Air Oxidizing agents Carbon dioxide, Carbon monoxide **TCI AMERICA** 

# 11. TOXICOLOGICAL INFORMATION

### RTECS Number: PA8750000

Acute Toxicity: ihl-mus LC50:57 g/m <sup>3</sup> /7H orl-rat LD50:6653 mg/kg		ihl-rat LC50:15000 skn-rbt LD:>16 mL/		
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: eye-rbt 100 uL MOD				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: No data available				
<b>Carcinogenicity:</b> No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
<b>Reproductive toxicity:</b> No data available				
Target organ(s): May cause respiratory irritation. May cause drowsiness or dizziness.				
12. ECOLOGICAL INFORMATION				
Ecotoxicity: Fish: Crustacea: Algae:	No data available No data available No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil Log Pow: Soil adsorption (Koc):	No data available No data available 0.0 5			
Henry's Law (PaM <sup>3</sup> /mol): 13. DISPOSAL CONSIDERATIONS	16.5			
Disposal of product:	Local rules and rec and burn in a chen intended to provide with this section er Identification and L be allowed to ente	gulations. You may be able to nical incinerator equipped with e assistance but does not repla nsure regulatory compliance ac Listing of Hazardous Waste are r the environment, drains, wate	dissolve or mix mai an afterburner and ace these laws, nor ccording to the law. e listed in 40 CFR F er ways, or the soil.	Parts 261. The product should not
Disposal of container: Other considerations:		sed product. Do not re-use em Il, state and local regulations w		ne substance.

#### 14. TRANSPORT INFORMATION

<u>DOT (US)</u> UN number: UN1234	Proper Shipping Name: Methylal	<b>Class or Division:</b> 3 Flammable liquid	Packing Group:
IATA UN number: UN1234	Proper Shipping Name: Methylal	<b>Class or Division:</b> 3 Flammable liquid	Packing Group: II
IMDG UN UN1234 numb er:	Proper Shipping Name: Methylal	<b>Class or Division:</b> 3 Flammable liquid	Packing Group: II
EmS number:	F-E, S-D		

### 15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.):

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

US Federal Regul	lations		
CERCLA Hazardo	ous substance and Rep	oortable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Degulation			
State Regulations			
State Right-to-Kn		L'ara d	
Massachuset	ts	Listed	
New Jersey		Listed	
Pennsylvania	1	Listed	
California Propos	sition 65:	Not Listed	
Other Information	<b>,</b>		
	<u>1</u>		HMIS Classification:
NFPA Rating:			
Health:	2		Health:
Flammability:	3		Flammability:
Instability:	0		Physical:
International Inve	entories		
Canada: DSL		On DSL	
EC-No:		203-714-2	
EC-NU.		200-714-2	

# 16. OTHER INFORMATION

#### Revision date: 07/06/2018

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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.

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