

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:

Hazard Statement(s):

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Disposal]

Hazards not otherwise classified: [HNOC] Dimethyl Fumarate F0069

For laboratory research purposes. Not for drug or household use.

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SAFETY DATA SHEET

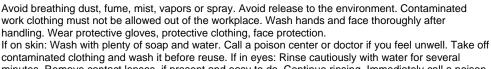
Emergency telephone number:

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

Acute Toxicity - Dermal [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 1] Sensitization - Skin [Category 1] Aquatic Hazard (Acute) [Category 2]

Danger!

Harmful in contact with skin Causes skin irritation Causes serious eye damage May cause an allergic skin reaction Toxic to aquatic life



minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. 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.).

May be harmful if swallowed.

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3 COMPOSITION/INFORMATION ON INGREDIENTS

3. COMPOSITION/INFORMATION ON INGREDIENTS		
Substance/mixture:	Substance	
Components:	Dimethyl Fumarate	
Percent:	>98.0%(GC)	
CAS RN:	624-49-7	
Molecular Weight:	144.13	
Chemical Formula:		
Synonyms:	Fumaric Acid Dimethyl Ester	
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.	
Skin contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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:	Pain, Redness,	
Delayed:	May cause skin sensitization.	
Indication of any immediate medical att	ention:	
Not available.		
Notes to physician:		
No data available		
5. FIRE-FIGHTING MEASURES		
Switchle system switching modicy	Dry shamical form water aprov, aarban diavida	
Suitable extinguishing media:	Dry chemical, foam, water spray, 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	
Porsonal proceptions, protective	Lice percental protective equipment. Keep people away from and upwind of shill/look. Entry to	
Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep people away from and upwind of spill/leak. 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		
menuous and materials for containment	oweep dust to concern mite an antigrit container, taking care not to disperse it. Adhered of conected	
	material should be promptly disposed of in accordance with appropriate laws and regulations	
and cleaning up:	material should be promptly disposed of, in accordance with appropriate laws and regulations.	
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Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.	
Conditions for safe storage, including any incompatibilities		
Storage conditions:	Keep container tightly closed. Store in a cool and dark place.	
-	Store away from incompatible materials such as oxidizing agents.	
Packaging material:	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 as possible so that workers should not be exposed directly. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Dust respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder White - Almost white No data available No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	104°C (219°F) 205°C (401°F) No data available No data available 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):	No data available 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:	Insoluble Acetone, Chloroform		

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents Carbon dioxide, Carbon monoxide

skn-rbt LD50:1250 mg/kg

OSHA:

No data available

11. TOXICOLOGICAL INFORMATION

RTECS Number: EM6125000

Acute Toxicity: orl-rat LD50:2240 mg/kg ihl-mus LC:>3100 mg/m³/10M

Skin corrosion/irritation: skn-rbt 20 mg/24H MOD

Serious eye damage/irritation: eye-rbt 250 mg/24H SEV

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

IARC: No data available

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

No data available

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12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
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Persistence / degradability:	No data available
Bioaccumulative potential(BCF):	No data available
Mobility in soil	
Log Pow:	0.74
Soil adsorption (Koc):	No data available
Henry's Law (PaM ³/mol):	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:	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.
IATA	Non-hazardous for transportation.
IMDG	Non-hazardous for transportation.

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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 Hazardous substance and Reportable Quantity:** Not Listed SARA 313: SARA 302: Not Listed State Regulations State Right-to-Know Massachusetts Not Listed **New Jersey** Not Listed Pennsylvania Not Listed California Proposition 65: Not Listed Other Information **NFPA Rating: HMIS Classification:** Health: 2 Health: Flammability: 0 Flammability: Instability: Physical: 0 International Inventories Canada: NDSL On NDSL 210-849-0 EC-No:

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.