

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

TCI AMERICA SAFETY DATA SHEET

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	Diethyl (1,3-Dithian-2-yl)phosphonate D4074	
:	For laboratory research purposes. Not for drug or household use.	
Street U.S.A.		Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies:
-1-503-283-1681		Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)
-1-503-283-1987		+1-703-527-3887 (International) Responsible department:
nicals.com com		TCI America Environmental Health Safety and Security +1- 503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Not classifiable
Signal word:	None
Hazard Statement(s):	None
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s):	None
Hazards not otherwise classified: [HNOC]	None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms:

Substance Diethyl (1,3-Dithian-2-yl)phosphonate >93.0%(GC) 62999-73-9 256.31 C₈H₁₇O₃PS₂ (1,3-Dithian-2-yl)phosphonic Acid Diethyl Ester

Skin contact: R Eye contact: R Ingestion: G Symptoms/effects: Acute: Acute: N Delayed: N Indication of any immediate medical attent Not available. Notes to physician: No data available 5. FIRE-FIGHTING MEASURES Suitable extinguishing media: Specific hazards arising from the chemical: Hazardous combustion products: TOther specific hazards: Advice for firefighters: V 6. ACCIDENTAL RELEASE MEASURE Personal precautions, protective equipment and emergency procedures: Putods and materials for containment and cleaning up: 7. HANDLING AND STORAGE Precautions for safe handling:	Dry chemical, foam, water spray, carbon dioxide. Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume These products include: Carbon oxides Sulfur oxides Phosphates Closed containers may explode from heat of a fire. Wear self-contained breathing apparatus if possible.
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equipment and emergency procedures: n Environmental precautions: P Methods and materials for containment S and cleaning up: m 7. HANDLING AND STORAGE Precautions for safe handling: H	
Precautions for safe handling: ⊢	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. Prevent product from entering drains. Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
Precautions for safe handling:	
d	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	y incompatibilities
	Keep container tightly closed. Store in a cool and dark place. Store under inert gas.
	Store away from incompatible materials such as oxidizing agents.
А	Air-sensitive
Packaging material: C	Comply with laws.
8. EXPOSURE CONTROLS / PERSON	NAL PROTECTION
s s	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: D	

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 - Lump Very pale yellow - Yellow No data available No data available No data available			
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	35°C (Freezing point) (95°F) 134°C /0.01kPa (273°F) No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl	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	Acetate=1): Autoignition temperature: Flammability or explosive limits:	No data available	
Solubility(ies): [Water]	No data available	Lower: Upper:	No data available No data available	
[Other solvents] No data available 10. STABILITY AND REACTIVITY				
Reactivity: Chemical stability: Possibility of hazardous reactio Incompatible materials: Hazardous decomposition prod	No data available Stable under proper conditi ns: No special reactivity has be Oxidizing agents		ides	

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available

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

Target organ(s):

No data available

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12. ECOLOGICAL INFORMATION

Disposal of container: Other considerations:	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. Dispose of as unused product. Observe all federal, state and local regulations when disposing of the substance.
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
13. DISPOSAL CONSIDERATIONS	
Henry's Law (PaM ³/mol):	No data available
Soil adsorption (Koc):	No data available
Log Pow:	No data available
Mobility in soil	
Persistence / degradability: Bioaccumulative potential(BCF):	No data available No data available
-	
Algae:	No data available
Crustacea:	No data available
Fish:	No data available
Ecotoxicity:	

14. TRANSPORT INFORMATION DOT (US) Non-hazardous for transportation. IATA Non-hazardous for transportation. IMDG Non-hazardous for transportation.

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.

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US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:			
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulations	s		
State Right-to-Kn			
Massachuset	ts	Not Listed	
New Jersey		Not Listed	
Pennsylvania	1	Not Listed	
California Propos	sition 65:	Not Listed	
Other Information	า		
NFPA Rating:	_		HMIS Classification:
Health:	0		Health:
Flammability:	0		Flammability:
Instability:	0		Physical:

International Inventories

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.