

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]

[Storage] [Disposal]

Hazards not otherwise classified: [HNOC] Diphenylphosphinic Chloride C1415

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SAFETY DATA SHEET

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

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

Eye Damage/Irritation [Category 1] Flammable Liquids [Category 3] Skin Corrosion/Irritation [Category 1B]

Danger!

Flammable liquid and vapor Causes severe skin burns and eye damage

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. Do not breathe dusts or mists. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a poison center or doctor. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. In case of fire: Use dry chemical, dry sand or foam to extinguish.

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Keep container tightly

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.).

May develop pressure

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Cultorton a desintance	Substance
Substance/mixture:	Substance
Components:	Diphenylphosphinic Chloride >98.0%(GC)(T)
Percent: CAS RN:	290.0%(GC)(T) 1499-21-4
	236.63
Molecular Weight: Chemical Formula:	230.03 C12H10ClOP
Synonyms:	Chlorodiphenylphosphine Oxide
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. Immediately call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER or doctor/physician.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
Symptoms/effects:	
Acute:	Pain. Redness.
Delayed:	No data available
Indication of any immediate medical a Not available. Notes to physician: No data available	attention:
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media: Unsuitable extinguishing media:	Dry chemical, carbon dioxide. Water
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Halogenated compounds Phosphates WARNING: Highly toxic HCI gas is produced during combustion.
Advice for firefighters:	Wear self-contained breathing apparatus if possible.
6. ACCIDENTAL RELEASE MEAS	SURES
-	

Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up: Prevention of secondary hazards:	controlled around the leakage area by roping off, etc. Prevent product from entering drains.				
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. May develop pressure. Open carefully.				
Conditions for safe storage, including any incompatibilities					
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Moisture-sensitive				
Packaging material:	Comply with laws.				

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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):	Liquid		
Form:	Clear		
Colour:	Colorless - Yellow		
Odour:	No data available		
Odor threshold:	No data available		
Odour threshold:	No data available		
Melting point/freezing point:	No data available	pH:	No data available
Boiling point/range:	222°C /2.1kPa (432°F)	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density:	1.27	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available		
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point:	26°C (79°F)	Autoignition temperature:	No data available
Flammability(solid, gas):	No data available	Flammability or explosive limits:	
)((1,1),3))		Lower:	No data available
		Upper:	No data available
Solubility(ies):		••	
[Water]	No data available		
[Other solvents]	No data available		

10. STABILITY AND REACTIVITY

Reactivity:No data availableChemical stability:Stable under proper conditions.Possibility of hazardous reactions:Decomposes in contact with water and liberates toxic gases.Conditions to avoid:Spark, Open flame, Static discharge, MoistureIncompatible materials:Oxidizing agentsHazardous decomposition products:Carbon dioxide, Carbon monoxide, Hydrogen chloride, Phosphorus oxides

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			
12. ECOLOGICAL INFORMATION				
Ecotoxicity:				
Fish:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available			
Log Pow:				
Logiow.	No data available			
Soil adsorption (Koc):	No data available			
Soil adsorption (Koc): Henry's Law (PaM ³/mol):	No data available No data available			
Soil adsorption (Koc): Henry's Law (PaM ³ /mol): 13. DISPOSAL CONSIDERATIONS	No data available No data available	s if possible. It is the generator's r	responsibility to	comply with Eederal State and
Soil adsorption (Koc): Henry's Law (PaM ³/mol):	No data available No data available Recycle to process Local rules and re and burn in a cher intended to provide with this section er Identification and I be allowed to ente	e assistance but does not replace nsure regulatory compliance acco	solve or mix main afterburner and these laws, nor ording to the law sted in 40 CFR F ways, or the soil.	terial with a combustible solvent I scrubber system. This section is does compliance in accordance US EPA guidelines for Parts 261. The product should not

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14. TRANSPORT INFORMATION

DOT (US) UN number: UN2920	Proper Shipping Name: Corrosive liquids, flammable, n.o.s	Class or Division: 8 Corrosive material	Subrisk(s): 3 Flammable liquid	Packing Group: II
IATA UN number: UN2920	Proper Shipping Name: Corrosive liquid, flammable, n.o.s	Class or Division: 8 Corrosive material	Subrisk(s): 3 Flammable liquid	Packing Group: II
IMDG UN UN2920 numb er:	Proper Shipping Name: Corrosive liquid, flammable, n.o.s	Class or Division: 8 Corrosive material	Subrisk(s): 3 Flammable liquid	Packing Group: II
EmS number:	F-E, S-C			

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

CERCLA Hazardo	ous substance ar	nd Reportable Quantity:		
SARA 313:		Not Listed		
SARA 302:		Not Listed		
State Regulations	8			
State Right-to-Kn	ow			
Massachuset	ts	Not Listed		
New Jersey		Not Listed		
Pennsylvania	1	Not Listed		
California Propos	sition 65:	Not Listed		
Other Information	<u>1</u>			
NFPA Rating:			HMIS Classification:	
Health:	3		Health:	3
Flammability:	3		Flammability:	3
Instability:	0		Physical:	0
International Inve	entories			
EC-No:		216-107-2		
16. OTHER INF	ORMATION			

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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.