

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):

Causes skin irritation Causes serious eye irritation

Warning!

None.

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response]

Wash hands and face thoroughly after handling. Wear protective gloves, eye protection. 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 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.

Hazards not otherwise classified: [HNOC]

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Substance Tributyl(ethyl)phosphonium Diethyl Phosphate >96.0%(T) 20445-94-7 384.48 C18H42O4P2

Tributyl(ethyl)phosphonium Diethyl Phosphate T3641

TCI AMERICA

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

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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. Gently wash with plenty of soap and water. It 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:			
Symptoms/effects:			
Acute:	No data available		
Delayed:	No data available		
ndication 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 spray, carbon dioxide.		
Specific hazards arising from the	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fur		
chemical:	These preducts include: Carbon evides Pheephetes		
lazardous combustion products: Other specific hazards:	These products include: Carbon oxides Phosphates 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 personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequat		
equipment and emergency procedures:			
Environmental precautions:	Prevent product from entering drains.		
Methods and materials for containment			
nd cleaning up:	amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.		
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. Wash hands and face thoroughly after handling.		
	Use a ventilation, local exhaust if vapour or aerosol will be generated.		
	Avoid contact with skin, eyes and clothing.		
Conditions for safe storage, including a			
Storage conditions:	Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture.		
	Store away from incompatible materials such as oxidizing agents.		
	Hygroscopic		
Packaging material:	Comply with laws.		
B. EXPOSURE CONTROLS / PERSC	NAL 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		

	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:	Vapor 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

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Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Pale yellov No data available No data available No data available	N	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity:	No data available No data available No data available 1.01 No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity:	No data available No data available. No data available No data available
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower:	No data available No data available
		Upper:	No data available
Solubility(ies): [Water] [Other solvents]	No data available No data available	- PP	
10. STABILITY AND REACTIV	/ITY		
Reactivity: No data available Chemical stability: Stable under proper conditions. Possibility of hazardous reactions: No special reactivity has been reported. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon dioxide, Carbon monoxide, Phosphorus oxides			
11. TOXICOLOGICAL INFORM	NATION		
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			

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

OSHA:

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF): Mobility in soil	No data available
Log Pow:	No data available
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.

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	ow		
Massachuse	tts	Not Listed	
New Jersey		Not Listed	
Pennsylvania	3	Not Listed	
California Propos	sition 65:	Not Listed	
Other Information	n		
NFPA Rating:	_		HMIS Classification:
Health:	2		Health:
Flammability:	0		Flammability:
Instability:	0		Physical:

International Inventories

16. OTHER INFORMATION

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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.