

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:

Acute Toxicity - Oral [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A] Aquatic Hazard (Acute) [Category 2] Aquatic Hazard (Long-Term) [Category 2]

Signal word:

Hazard Statement(s):

Harmful if swallowed Causes skin irritation Causes serious eye irritation Toxic to aquatic life Toxic to aquatic life with long lasting effects

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Disposal]

Hazards not otherwise classified: [HNOC] Triphenylphosphine Oxide T0625

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

TCI AMERICA

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

Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection.

If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. 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. Collect spillage.

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.).

None.

Warning!

# **TCI AMERICA**

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components:	Substance Triphenylphosphine Oxide
Percent:	>98.0%(GC)
CAS RN:	791-28-6
Molecular Weight:	278.29
Chemical Formula:	C18H15OP

# 4. FIRST-AID MEASURES

Description of first aid measures				
Inhalation:	halation:       Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.         kin 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.			
Skin contact:				
Eye contact:				
Ingestion:	Colline Poison CENTER or doctor/physician if you feel unwell. Rinse mouth.			
Symptoms/effects:				
Acute:	Redness.			
Delayed:	No data available			
Indication of any immediate medical attended by Not available.	ention:			
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 chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume			
Hazardous combustion products:	These products include: Carbon oxides Phosphates			
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			
Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up:	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.			
7. HANDLING AND STORAGE				
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 a				
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 / 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 shower and eye bath.			
Personal protective equipment	Dust respirator. Follow local and national regulations			

Dust respirator. Follow local and national regulations.	
Protective gloves.	
Safety glasses. A face-shield, if the situation requires.	
Protective clothing. Protective boots, if the situation requires.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Solid		
Form:	Crystal - Powder		
Colour:	White - Pale yellow		
Odour:	No data available		
Odor threshold:	No data available		
Odour threshold:	No data available		
Melting point/freezing point:	156°C (313°F)	pH:	No data available
Boiling point/range:	360°C (680°F)	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density:	No data available	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available		
Log Pow:	No data available	Evaporation rate(Butyl	No data available
		Acetate=1):	
Flash point:	No data available	Autoignition temperature:	No data available
Flammability(solid, gas):	No data available	Flammability or explosive limits:	
		Lower:	No data available
		Upper:	No data available
Solubility(ies):			
[Water]	Insoluble		
[Other solvents]			
Soluble:	Methanol, Acetone		
10. STABILITY AND REACTI			
Beactivity	No data available		
Reactivity:	No data available	aanditiana	
Chemical stability:	Stable under proper of	conditions.	
Possibility of hazardous reactio		nas been reported.	
Incompatible materials:	Oxidizing agents		
Hazardous decomposition prod	ucts: Carbon dioxide, Carb	oon monoxide, Phosphorus oxides	
11. TOXICOLOGICAL INFOR	RMATION		
RTECS Number: SZ1676000			
Acute Toxicity: orl-mus LD50:1380 mg/kg			
011-111US LD30. 1360 110/Kg		arl dag I DI av500 mg/kg	
		orl-dog LDLo:500 mg/kg	
orl-ckn LD50:>5 g/kg		orl-dog LDLo:500 mg/kg	
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Target organ(s):

No data available

# 12. ECOLOGICAL INFORMATION

Ecotoxicity:				
Fish:		No data available		
Crustacea:		No data available		
Algae:		No data available		
Persistence / degra	adability:	No data available		
Bioaccumulative p Mobility in soil	otential(BCF):	No data available		
Log Pow:		No data available		
Soil adsorpt	ion (Koc):	No data available		
Henry's Law	(PaM ³/mol):	No data available		
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	ONSIDERATIONS			
Disposal of produc	ct:	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 contain	ner:	Dispose of as unused product. Do not re-use empty containers.		
Other consideration	ons:	Observe all federal, state and local regulations when disposing of the substance.		
14. TRANSPORT	INFORMATION			
DOT (US)				
UN number:	Proper Shipping N		Class or Division: 9 Miscellaneous hazardous	Packing Group:
UN3077	Environmentally haz solid, n.o.s	ardous substance,	material	

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IATA UN number: UN3077	<b>Proper Shipping Name:</b> Environmentally hazardous substance, solid, n.o.s	<b>Class or Division:</b> 9 Miscellaneous hazardous material	Packing Group:
IMDG UN UN3077 numb er:	<b>Proper Shipping Name:</b> Environmentally hazardous substance, solid, n.o.s	<b>Class or Division:</b> 9 Miscellaneous hazardous material	Packing Group:
EmS number:	F-A, S-F		

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regu			
CERCLA Hazardo	ous substance	and Reportable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulation	6		
State Right-to-Kn			
Massachuse	ts	Not Listed	
New Jersey		Not Listed	
Pennsylvania	1	Not Listed	
California Propos	sition 65:	Not Listed	
Other Information	ı		
NFPA Rating:	-		HMIS Classification:
Health:	2		Health:
Flammability:	1		Flammability:
Instability:	0		Physical:
International Inve	entories		
Canada: NDSL		On NDSL	
EC-No:		212-338-8	

### **TCI AMERICA**

## 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.