

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 Tetrabutylphosphonium Hydroxide (40% in Water) T2571

**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

## 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Eye Damage/Irritation [Category 1] Skin Corrosion/Irritation [Category 1B]
Signal word:	Danger!
Hazard Statement(s):	Causes severe skin burns and eye damage
Pictogram(s) or Symbol(s):	
Precautionary Statement(s): [Prevention]	Do not breathe dusts or mists. Wash hands and face thoroughly after handling. Wear protective gloves,
	protective clothing, face protection.
[Response]	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.
[Storage]	Store locked up.
[Disposal]	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.).
Hazards not otherwise classified: [HNOC]	None.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms: Mixture Tetrabutylphosphonium Hydroxide (40% in Water) .... 14518-69-5 276.44 C<sub>16</sub>H<sub>37</sub>OP TBPH (40% in Water)

4. FIRST-AID MEASURES			
Description of first aid manufactures			
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. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.		
Skin contact:			
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: Delayed:	Pain. Redness. No data available		
Delayed.			
Indication of any immediate medical attended to the Not available. Notes to physician: No data available	ention:		
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 Closed containers may explode from heat of a fire.		
Other specific hazards:			
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
Personal precautions, protective			
equipment and emergency procedures:			
equipment and emergency procedures: Environmental precautions:			
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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Very pale yello No data available No data available No data available	9W	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity:	No data available No data available No data available 0.99 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: Upper:	No data available No data available No data available
Solubility(ies): [Water] [Other solvents]	No data available No data available		
10. STABILITY AND REACT	IVITY		
Reactivity: Chemical stability: Possibility of hazardous reactio Incompatible materials:	Oxidizing agents, Acids		

Oxidizing agents, Acids Hazardous decomposition products: Carbon dioxide, Carbon monoxide, Phosphorus oxides

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## 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

Reproductive toxicity: No data available

Target organ(s):

No data available

NTP:

No data available

OSHA:

No data available

12. ECOLOGICAL INFORMATION

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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 <sup>3</sup> /mol):	No data available
13. DISPOSAL CONSIDERATION	IS
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 adverted to provide according to the law.

be allowed to enter the environment, drains, water ways, or the soil.

Observe all federal, state and local regulations when disposing of the substance.

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Dispose of as unused product. Do not re-use empty containers.

Disposal of container: Other considerations:

14. TRANSPORT INFORMATION

DOT (US) UN number: UN3267	<b>Proper Shipping Name:</b> Corrosive liquid, basic, organic, n.o.s	Class or Division: 8 Corrosive material	Packing Group:
IATA UN number: UN3267	<b>Proper Shipping Name:</b> Corrosive liquid, basic, organic, n.o.s	Class or Division: 8 Corrosive material	Packing Group:
IMDG UN UN3267 numb er:	<b>Proper Shipping Name:</b> Corrosive liquid, basic, organic, n.o.s	Class or Division: 8 Corrosive material	Packing Group: II
EmS number:	F-A, S-B		

# 15. REGULATORY INFORMATION

## Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

<u>US Federal Regu</u> CERCLA Hazardo SARA 313: SARA 302:	l <u>ations</u> ous substance and Rep	Not Listed Not Listed	
State Regulation			
State Right-to-Kr		Notlisted	
Massachuse	tts	Not Listed	
New Jersey		Not Listed	
Pennsylvania		Not Listed	
California Propos	sition 65:	Not Listed	
Other Information NFPA Rating: Health: Flammability: Instability:	n3 00		HMIS Classification: Health: Flammability: Physical:
International Inve Canada: NDSL EC-No:	entories_	On NDSL 238-528-0	

## 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.