

Revision number: 1 Revision date: 07/06/2018

1. IDENTIFICATION

TCI AMERICA SAFETY DATA SHEET

Product name: Product code:	Dibutyl Phosphate P0260	
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household 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		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		
DSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Eye Damage/Irritation [Category 1] Specific Target Organ Toxicity (Single Exposure Specific Target Organ Toxicity (Repeated Expos Corrosive to Metals [Category 1] Skin Corrosion/Irritation [Category 1C]	
Signal word:	Danger!	
lazard Statement(s):	May be corrosive to metals Causes severe skin burns and eye damage May cause respiratory irritation. May cause drow	rsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure: Liver Adrenal Gland Urinary Bladder

attention if you feel unwell. Absorb spillage to prevent material damage.

CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

well-ventilated place. Keep container tightly closed. Store locked up.

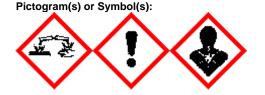
Keep only in original container. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Wash hands and face thoroughly after handling. Wear protective gloves,

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. Get medical advice or

Store in corrosive resistant bottle or metal container with a resistant inner liner. Store in a

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If on

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40



Precautionary Statement(s): [Prevention]

[Response]

[Storage]

[Disposal]

Hazards not otherwise classified: [HNOC] May be harmful if swallowed.

protective clothing, face protection.

TCI AMERICA

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components:	Substance Dibutyl Phosphate
Percent:	>97.0%(T)
CAS RN: Molecular Weight:	107-66-4 210.21
Chemical Formula:	C8H19O4P
Synonyms:	Phosphoric Acid Dibutyl Ester

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:	Dizziness. Pain. Redness. Drowsiness.		
Delayed:	May have effects on the respiratory tract.		
Indication of any immediate medical Not available.	attention:		

Notes to physician: No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Unsuitable extinguishing media:	Solid streams of 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:	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 MEASURES	

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions: Methods and materials for containment and cleaning up:	Prevent product from entering drains. Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large 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 closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing. Use corrosive resistant equipment.
Conditions for safe storage, including a	ny incompatibilities
Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. Air-sensitive
Packaging material:	Comply with laws. Keep only in original container.

TCI AMERICA

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: ACGIH TLV(TWA):	5 mg/m³ (IFV) (skin)
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: Eye protection: Skin and body protection:	Impervious gloves. Safety goggles. A face-shield, if the situation requires. Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Pale yellow Odorless No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity:	-13°C (9°F) 138°C (280°F) No data available 1.06 No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity:	No data available No data available. 7.2 No data available
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	196°C (385°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	420°C (788°F) No data available No data available
Solubility(ies): [Water] [Other solvents] Soluble:	Slightly soluble (1.8g/100r Carbon tetrachloride, Buta	nL, 20°C)	
10. STABILITY AND REACT	IVITY		

Reactivity: Chemical stability: Possibility of hazardous reactions: Incompatible materials: Hazardous decomposition products:

No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents, Bases, Metals Carbon dioxide, Carbon monoxide, Phosphorus oxides

TCI AMERICA

Page 4 of 5

11. TOXICOLOGICAL INFORMATION

RTECS Number: TB9605000

RTECS Number: TB9605000					
Acute Toxicity: orl-rat LD50:3200 mg/kg					
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): May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs throug	h prolonged or repe	ated exposure: Liver Adrena	al Gland Urinary Bladde	er.	
12. ECOLOGICAL INFORMATION					
Ecotoxicity: Fish:	40h I 050x 050 x				
	No data available	ng/L (Oryzias latipes)			
Crustacea:	No data available				
Algae:	ino data avallable	5			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	2 % (by BOD) , 3 <0.7 (conc. 2 mg	8 % (by TOC) , 5 % (by GC) /L) , <6.9 (conc. 0.2 mg/L)			
Log Pow:	0.6 - 1.4				
Soil adsorption (Koc):	419				

13. DISPOSAL CONSIDERATIONS

Henry's Law (PaM 3/mol):

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

4.3 x 10-4

14. TRANSPORT INFORMATION

DOT (US) UN number: UN1718	Proper Shipping Name: Butyl acid phosphate	Class or Division: 8 Corrosive material	Packing Group:	
IATA UN number: UN1718	Proper Shipping Name: Butyl acid phosphate	Class or Division: 8 Corrosive material	Packing Group: III	
IMDG UN UN1718 numb er:	Proper Shipping Name: Butyl acid phosphate	Class or Division: 8 Corrosive material	Packing Group: III	
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.

US Federal Regu	lations				
CERCLA Hazardous substance and Reportable Quantity:					
SARA 313:		Not Listed			
SARA 302:		Not Listed			
State Regulations	e				
State Right-to-Kn					
Massachuset		Listed			
		Listed			
New Jersey	_	Listed			
Pennsylvania					
California Propos	Sition 65:	Not Listed			
Other Information	n				
NFPA Rating:	-		HMIS Classification:	-	
Health:	2		Health:	2	
Flammability:	1		Flammability:	1	
Instability:	0		Physical:	0	
instability.	0		Filysical.	0	
International Inve	ntorios				
Canada: DSL	mones	On DSL			
EC-No:		203-509-8			
EC-110.		203-309-0			

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.