

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

1. IDENTIFICATION

Product name:

Product code:

Product use: Restrictions on use:

TCI AMERICA SAFETY DATA SHEET

Propionic Acid P0500

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

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Acute Toxicity - Dermal [Category 3] Eye Damage/Irritation [Category 1] Specific Target Organ Toxicity (Single Exposure) [Category 3] Flammable Liquids [Category 3] Corrosive to Metals [Category 1] Aquatic Hazard (Acute) [Category 3] Aquatic Hazard (Long-Term) [Category 3] Skin Corrosion/Irritation [Category 1B]
Signal word:	Danger!
Hazard Statement(s):	Flammable liquid and vapor May be corrosive to metals Toxic in contact with skin Causes severe skin burns and eye damage Harmful to aquatic life Harmful to aquatic life with long lasting effects

May cause respiratory irritation.

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage]

[Disposal]

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

Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Keep container tightly closed. Keep only in original container. 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. Use only outdoors or in a well-ventilated area. Avoid release to the environment. 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. Absorb spillage to prevent material damage.

Store in corrosive resistant bottle or metal container with a resistant inner liner. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40

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May be harmful if swallowed.

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

Hazards not otherwise classified: [HNOC]

3. COMPOSITION/INFORMATION O	NINGREDIENTS			
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Substance/mixture:	Substance			
Components:	Propionic Acid			
Percent:	>99.0%(GC)(T)			
CAS RN:	79-09-4			
Molecular Weight:	74.08			
Chemical Formula:	C3H6O2			
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			
Skin contact:	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.			
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.			
Ingestion:	Continue rinsing.Immediately call a POISON CENTER or doctor/physician. Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.			
-				
Symptoms/effects:	Data Data an			
Acute:	Pain. Redness.			
Delayed:	May have effects on the respiratory tract.			
Indication of any immediate medical atte Not available. Notes to physician:	ention:			
No data available				
5. FIRE-FIGHTING MEASURES				
Suitable extinguishing media:	Dry chemical, foam, water in large amounts, carbon dioxide.			
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides 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:	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away fron and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.			
	Prevent product from entering drains. Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be			
and cleaning up: Prevention of secondary hazards:	promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use			
·	spark-proof tools and explosion-proof equipment.			
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. Tak 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.			
Conditions for safe stars as including a	Use corrosive resistant equipment.			
Conditions for safe storage, including a Storage conditions:	ny incompatibilities Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up			

Store away from incompatible materials such as oxidizing agents.

Comply with laws. Keep only in original container.

Store locked up.

Packaging material:

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: ACGIH TLV(TWA):	10 ppm
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 - Almost colorless Pungent No data available No data available	3	
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity:	No data available 140°C (284°F) No data available 1.00 No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity:	No data available No data available. 2.6 No data available
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	52°C (126°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	485°C (905°F) 2.1% 12%
Solubility(ies): [Water] [Other solvents] Soluble:	Miscible Ether, Alcohols		
10. STABILITY AND REACT			

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

No data available Stable under proper conditions. No special reactivity has been reported. Spark, Open flame, Static discharge Oxidizing agents, Bases, Metals Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

RTECS Number: UE5950000

Disposal of container:

Other considerations:

Acute Toxicity: ivn-mus LD50:625 mg/kg par-rat LD50:3500 mg/kg	orl-rat LD50:2600 mg/kg skn-rbt LD50:500 uL/kg	
Skin corrosion/irritation: skn-rbt 495 mg open SEV		
Serious eye damage/irritation: eye-rbt 990 ug SEV		
Respiratory or skin sensitization: No data available		
Germ cell mutagenicity: sce-hmn-lym 2500 umol/L		
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.		
12. ECOLOGICAL INFORMATION		
Ecotoxicity: Fish: Crustacea: Algae:	96h LC50:4740 mg/L (Pimephales promelas) 24h EC50:130 mg/L (Daphnia magna) No data available	
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available 3.16	
Log Pow:	0.33	
Soil adsorption (Koc): Henry's Law (PaM ³ /mol):	1.2 4.5 x 10 ⁻²	
13. DISPOSAL CONSIDERATIONS		
Disposal of product:	Recycle to process if possible. It is the generator's res Local rules and regulations. You may be able to disso and burn in a chemical incinerator equipped with an al intended to provide assistance but does not replace th with this section ensure regulatory compliance accord Identification and Listing of Hazardous Waste are liste be allowed to enter the environment drains, water was	Ive or mix material with a combustible solvent fterburner and scrubber system. This section is nese laws, nor does compliance in accordance ing to the law. US EPA guidelines for d in 40 CFR Parts 261. The product should not

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

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

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

14. TRANSPORT INFORMATION

DOT (US) UN number: UN3463	Proper Shipping N a Propionic acid	ame:	Class or Division: 8 Corrosive material	Subrisk(s): 3 Flammable liquid	Packing Group:
IATA UN number: UN3463	Proper Shipping Na Propionic acid	ame:	Class or Division: 8 Corrosive material	Subrisk(s): 3 Flammable liquid	Packing Group: II
IMDG UN UN3463 numb er:	Proper Shipping Na Propionic acid	ame:	Class or Division: 8 Corrosive material	Subrisk(s): 3 Flammable liquid	Packing Group: II
EmS number: Reportable Quantit	iy:	F-A, S-A 5000 Pounds (2270	Kilograms)		
15. REGULATORY INFORMATION					

Toxic Substance Control Act (TSCA 8b.):

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

US Federal Regul CERCLA Hazardo SARA 313: SARA 302:	<u>ations</u> ous substance and Rep	Not Listed Not Listed		
State Regulations State Right-to-Kn Massachuset New Jersey Pennsylvania	ow ts	Listed Listed Listed		
California Propos		Not Listed		
Other Information NFPA Rating: Health: Flammability: Instability:	1 3 2 0		HMIS Classification: Health: Flammability: Physical:	3 2 0
International Inve Canada: DSL EC-No:		On DSL 201-176-3		

16. OTHER INFORMATION

Revision date: 07/06/2018

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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.