

Revision number: 3 Revision date: 10/06/2014

1. IDENTIFICATION

Product name: Product code: Potassium Trihydrogen Dioxalate Dihydrate [for Determination of pH] P0475

TCI AMERICA

SAFETY DATA SHEET

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:

Acute Toxicity - Oral [Category 3]

For laboratory research purposes.

Not for drug or household use.

Signal word:

Toxic if swallowed

Danger!

Pictogram(s) or Symbol(s):

Hazard Statement(s):



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

Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. If swallowed: Immediately call a poison center or doctor. Rinse mouth. Store locked up. Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: CAS Number: Molecular Weight: Chemical Formula: Synonyms: Substance Potassium Trihydrogen Dioxalate Dihydrate [for Determination of pH] >99.0%(T) 6100-20-5 218.16(Anh) C₄H₃KO₈-2H₂O Oxalic Acid Hemipotassium salt Dihydrate , Potassium Tetraoxalate Dihydrate

4. FIRST-AID MEASURES

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

4. FIRST-AID MEASURES	
Inhalation:	Immediately call a poison center or doctor. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Skin contact:	Immediately call a poison center or doctor. Remove and wash contaminated clothing before re-use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye contact:	If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper eyelids. If eye irritation persists get medical advice/attention. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Ingestion:	Toxic if swallowed. If swallowed, seek medical advice immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Symptoms/effects:	
Acute: Delayed:	No data available No data available
Immediate medical attention:	WARNING: It might be dangerous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is toxic. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, CO_2 or water spray. Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the cho	emical
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Metallic oxides Closed containers may explode from heat of a fire.
heated. Move containers from fire area Special protective equipment for fire	ight streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when if you can do it without risk.
	uations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may
6. ACCIDENTAL RELEASE MEAS	SURES
Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch
	damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Personal protective equipment:	Safety glasses. Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
Emergency procedures:	Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas: dike if needed

Methods and materials for containment and cleaning up: ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. Environmental precautions:

confined areas; dike if needed.

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No data available

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment	
Respiratory protection:	Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Wear protective gloves.
Eye protection:	Safety glasses.
Skin and body protection:	Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Almost white No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	No data available No data available No data available No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log P _{ow})	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition tempe Flammability or exp Lower: Upper:	
Solubility(ies): Water: Soluble Very slightly soluble: Insoluble: Benzene, Et			

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents No data available

11. TOXICOLOGICAL INFORMATION

Potassium Trihydrogen Dioxalate Dihyd Determination of pH] 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	Irate [for TCI AN	IERICA		Page 4 of 5
Carcinogenicity:				
No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: No data available				
Routes of Exposure: Symptoms related to exposure: Overexposure may result in serious illness Potential Health Effects: No specific information available; skin and Target organ(s):		ult in irriatation. May be harm	nful if inhaled or ingested	1.
12. ECOLOGICAL INFORMATION				
Ecotoxicity Fish: Crustacea: Algae:	No data available No data available No data available	•		
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law: constant (PaM ³ /mol)	No data available No data available No data available No data available No data available No data available			
13. DISPOSAL CONSIDERATIONS				
Disposal of product:	rules and regulati chemical incinera assistance but do regulatory compli	ons. You may be able to diss tor equipped with an afterbur bes not replace these laws, no ance according to the law. US n 40 CFR Parts 261. The pro	olve or mix material with ner and scrubber syster or does compliance in ac S EPA guidelines for Ide	nply with Federal, State and Local a combustible solvent and burn in a n. This section is intended to provide cordance with this section ensure ntification and Listing of Hazardous red to enter the environment, drains,
Disposal of container: Other considerations:	Dispose of as un	used product. Do not re-use e al, state and local regulations		substance.
14. TRANSPORT INFORMATION				
DOT (US) UN number: Proper Shipping N UN2811 Toxic solids, organi		Class or Division: 6.1 Toxic material.	Packing Group:	

ΙΑΤΑ

14. TRANSPORT	INFORMATION			
UN number:	Proper Shipping Name:	Class or Division:	Packing Group:	
UN2811	Toxic solid, oxidizing, n.o.s.	6.1 Toxic material.	III	
IMDG				
UN number:	Proper Shipping Name:	Class or Division:	Packing Group:	
UN2811	Toxic solid, organic, n.o.s.	6.1 Toxic material.		
EmS number:	F-A, S	A		
15. REGULATOR	Y INFORMATION			
Taxia Substance C	antrol Act (TSCA 9h);			
	ontrol Act (TSCA 8b.): he EPA Toxic Substances Conti	ol Act (TSCA) inventory.		
US Federal Regulat	ions			
CERCLA Hazardous	s substance and Reportable Q	uantity:		
SARA 313:	Not Lis			
SARA 302:	Not Lis	ited		
State Regulations				
State Right-to-Know	v			
Massachuse	tts Not Lis	ted		
New Jersey	Not Lis			
Pennsylvani California Propositi				
Camornia Propositi	UII 05. NOLLIS	lied		
Other Information				
NFPA Rating:		HMIS Classification:		
Health:	1	Health:	1	
	0	Flammability:	0	
Instability:	0	Physical:	0	
International Invent	ories			

WHMIS hazard class:

D1B: Materials causing immediate and serious toxic effects. (Toxic)

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 gogles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.