

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

1. IDENTIFICATION

TCI AMERICA SAFETY DATA SHEET

Product name: Product code:	Tetrapropyl Orthosilicate T1174	
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		
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Eye Damage/Irritation [Category 1] Skin Corrosion/Irritation [Category 1C]	
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 th	noroughly after handling. Wear protective gloves,
[Response]	 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. Store locked up. 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.). 	
[Storage] [Disposal]		
Hazards not otherwise classified: [HNOC]	None.	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms: Substance Tetrapropyl Orthosilicate >98.0%(GC) 682-01-9 264.44 C12H28O4Si Tetrapropoxysilane

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.	
Eye contact:	Immediately call a POISON CENTER or doctor/physician. 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:		
Acute: Delayed:	Pain. Redness. No data available	
Indication of any immediate medical atte Not available. Notes to physician: No data available	ention:	
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media: Unsuitable extinguishing media:	Dry chemical, foam, carbon dioxide. Water (It may scatter and spread fire.)	
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: Other specific hazards:	These products include: Carbon oxides Silicates 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 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.	
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.	
Conditions for safe storage, including a Storage conditions:	ny incompatibilities Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Moisture-sensitive	
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. 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	
Hand protection:	regulations. Impervious gloves.	

Hand protection:	Impervious gioves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situatio

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9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Liquid Clear Colorless - Almo No data available No data available No data available	9			
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	No data available 225°C (437°F) No data available 0.91 No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Be Acetate=1):	1	No data available No data available. No data available No data available No data available	
Flash point: Flammability(solid, gas):	104°C (219°F) No data available	Autoignition tempe Flammability or exp Lower: Upper:	olosive limits:	No data available No data available No data available	
Solubility(ies): [Water] [Other solvents]	No data available No data available				
Reactivity: Chemical stability: Possibility of hazardous reacti Incompatible materials: Hazardous decomposition pro- 11. TOXICOLOGICAL INFO	Oxidizing agents ducts: Carbon dioxide, (per conditions. vity has been reported.			
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	on:				
Germ cell mutagenicity: No data available					
Carcinogenicity: No data available					
IARC: No data available	NTP:	No data available	OSHA:	No data available	
Reproductive toxicity:					

Reproductive toxicity: No data available

Target organ(s):

No data available

12. ECOLOGICAL INFORMATION

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 3/mol):	No data available
13. DISPOSAL CONSIDERATIONS	
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. Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance. **Disposal of container:** Other considerations:

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14. TRANSPORT INFORMATION

DOT (US)

UN number: UN1760	Proper Shipping Name: Corrosive liquids, n.o.s	Class or Division: 8 Corrosive material	Packing Group:	
IATA UN number: UN1760	Proper Shipping Name: Corrosive liquid, n.o.s	Class or Division: 8 Corrosive material	Packing Group:	
IMDG UN UN1760 numb er:	Proper Shipping Name: Corrosive liquid, n.o.s	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 Regulations

Ible Quantity:
t Listed
HMIS Classification: Health: Flammability: Physical:
n DSL 1-659-0

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.