

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

2. HAZARD(S) IDENTIFICATION

+1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1-503-286-7624 OSHA Haz Com: CFR 1910.1200: Acute Toxicity - Oral [Category 4] Eye Damage/Irritation [Category 2B] WHMIS 2015: Toxic to Reproduction [Category 2] Specific Target Organ Toxicity (Single Exposure) [Category 3] Specific Target Organ Toxicity (Repeated Exposure) [Category 1] Signal word: Danger! Hazard Statement(s): Harmful if swallowed Causes eye irritation Suspected of damaging fertility or the unborn child May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure: Respiratory System Pictogram(s) or Symbol(s): Precautionary Statement(s): [Prevention] Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection. If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If inhaled: Remove person [Response] to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. If exposed or concerned: Get medical advice or attention. Store in a well-ventilated place. Keep container tightly closed. Store locked up. [Storage] [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]

Causes mild skin irritation.

Page 1 of 5

Emergency telephone number:

TCI America (8:00am - 5:00pm) PST

Chemical Emergencies:

Transportation Emergencies: Chemtrec 24-Hour

+1-800-424-9300 (U.S.A.)

+1-503-286-7624

TCI AMERICA SAFETY DATA SHEET

Terephthalic Acid

For laboratory research purposes.

Not for drug or household use.

T0166

TCI AMERICA

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Terephthalic Acid
Percent:	>99.0%(GC)(T)
CAS RN:	100-21-0
Molecular Weight:	166.13
Chemical Formula:	C8H6O4
Synonyms:	Benzene-1,4-dicarboxylic Acid, p-Phthalic Acid
4. FIRST-AID MEASURES	
Description of first aid measures	Remove victim to fresh air and keen at rest in a position comfortable for h

Description of first aid measu				
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON			
	CENTER or doctor/physician if you feel unwell.			
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If			
	skin irritation or rash occurs: Get medical advice/attention.			
Eve contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.			
	Continue rinsing. If eve irritation persists: Get medical advice/attention.			
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.			
Symptoms/effects:				
Acute:	Redness.			
Delayed:	May have effects on the respiratory tract.			
Indication of any immediate m	nedical attention:			
Not available				

Not available. Notes to physician: No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water spray, 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 MEASURES

Personal precautions, protective equipment and emergency procedures: 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 dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.			
Conditions for safe storage, including any incompatibilities				
Storage conditions:	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.			
Packaging material:	Comply with laws.			

Exposure limits:

ACGIH TLV(TWA):

TCI AMERICA

8. EXPOSURE CONTROLS / PERSONAL 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:	Dust 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:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Very slightly soluble: Insoluble:	Dimethylformamide(DMF), Dimethyl sulfoxide(DMSO), Pyrimidine Alcohols Ether, Chloroform, Ethanol, Acetic acid		
Solubility(ies): [Water] [Other solvents] Soluble:	Very slightly soluble (0.28g/100mL, 20°C)		
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	496°C (925°F) No data available No data available
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity:	No data available No data available No data available No data available No data available	Vapour pressure: Vapour density: Dynamic Viscosity:	No data available. No data available No data available
Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold: Melting point/freezing point:	Solid Crystal - Powder White - Almost white No data available No data available No data available 402°C (dec.) (756°F)	pH:	No data available

10. STABILITY AND REACTIVITY

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

No data available Stable under proper conditions. Dust explosion possible if in powder or granular form, mixed with air. Static discharge Oxidizing agents Carbon dioxide, Carbon monoxide **TCI AMERICA**

11. TOXICOLOGICAL INFORMATION

RTECS Number: WZ0875000

Acute Toxicity: orl-rat LD50:>5000 mg/kg ivn-dog LDLo:767 mg/kg	ipr-mus LD50:1430 mg/kg			
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: eye-rbt 500 mg/24H MLD				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity: orl-rat TDLo:92.4 g/kg/4W-I				
IARC: No data available	NTP: No data available OSHA: No data available			
Reproductive toxicity: orl-rat TDLo:147231 mg/kg (90D pre-21D p	ost)			
Target organ(s): May cause respiratory irritation. Causes damage to organs through pro	longed or repeated exposure: Respiratory System			
12. ECOLOGICAL INFORMATION				
Ecotoxicity:				
Fish: Crustacea:	No data available No data available			
Algae:	No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	74.7% (by BOD) , 99.3% (by UV-VIS) , 100% (by HPLC) 19			
Log Pow:	2			
Soil adsorption (Koc): Henry's Law (PaM ³/mol):	290 3.93 x 10 ²			
Henry's Law (Faw Millio).	5.35 × 10			
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.			
Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.			
14. TRANSPORT INFORMATION				
DOT (US)	Non-hazardous for transportation.			
IATA	Non-hazardous for transportation.			
IMDG_	Non-hazardous for transportation.			

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

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

<u>US Federal Regula</u> CERCLA Hazardo SARA 313: SARA 302:	<u>ations</u> us substance and Rep	portable Quantity: Not Listed Not Listed		
<u>State Regulations</u> State Right-to-Kno Massachusett New Jersey Pennsylvania California Proposi	bw IS	Listed Listed Listed Not Listed		
Other Information NFPA Rating: Health: Flammability: Instability:	2 1 0		HMIS Classification: Health: Flammability: Physical:	2 1 0
<u>International Inver</u> Canada: DSL EC-No:	ntories.	On DSL 202-830-0		

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.