



Safety Data Sheet

Version 7.0
Revision Date: 21/04/2021

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **Deuterated Terephthaloyl-d4 chloride**
Product number: D4TPCL
Product use: For laboratory research purposes.
Supplier / Manufacturer: Polymer Source, Inc.
Address: 124 Avro street, Dorval (Montreal), Quebec H9P 2X8, Canada
Telephone: (+1) 514-421-5517
Toll free: 1-866-422-9842
Fax: (+1) 514-421-5518
Emergency phone: (+1) 514-887-5517
E-mail: info@polymersource.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture in accordance with Hazardous Products Regulations (SOR/2015-17)

GHS Classification: Skin corrosion (Category 1B)
Serious eye damage (Category 1)

GHS Label elements, including precautionary statements

Pictogram:



Signal word: Danger

Hazard statements: H314. Causes severe skin burns and eye damage.

Precautionary statements: P260. Do not breathe dusts or mists.
P264. Wash skin thoroughly after handling.
P280. Wear protective gloves, protective clothing, eye protection, face protection.
P301 + P330 + P331. *IF SWALLOWED:*
Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353. *IF ON SKIN (or hair):*
Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310. *IF INHALED:*
Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310. *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/ doctor.

P363. Wash contaminated clothing before reuse.

P405. Store locked up.

P501. Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS: Lachrymator

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance:	Terephthaloyl-d4 chloride
Formula:	C ₈ D ₄ Cl ₂ O ₂
Molecular weigh:	206.97 g/mol
Concentration:	≤ 100 % (*by weight %)
CAS registry number:	129775-07-1

4. FIRST AID MEASURES

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
In case of eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
If swallowed:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary.
Hazardous combustion products:	Hazardous decomposition products formed under fire conditions: Carbon oxides, Hydrogen chloride gas.
Explosion data:	Sensitivity to mechanical impact: no data available Sensitivity to static discharge: no data available
Further information:	no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental precautions:	Prevent further leakage or spillage. Do not let product enter drains.
Methods and materials for containment and cleaning up:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Conditions for safe storage:	Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive. Storage class (TRGS 510): 6.1-D: Non-combustible, acute toxic Cat. 3 / toxic hazardous materials or hazardous materials causing chronic effects.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	
• Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
• Hand protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
• Eye protection:	Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
• Skin and body protection:	Wear complete suit protecting against chemicals / flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
• Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
• Specific engineering controls:	Use mechanical exhaust or laboratory fumehood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Form:	Flakes
	Colour:	White
Safety data:	pH:	no data available
	Melting point / Freezing point:	79–81 °C (lit.)
	Boiling point:	266 °C (lit.)
	Flash point:	180 °C – closed cup (lit.)
	Ignition temperature:	no data available
	Auto-ignition temperature:	no data available
	Lower explosion limit:	no data available
	Upper explosion limit:	no data available
	Vapour pressure:	no data available
	Density:	no data available
	Water solubility:	no data available
	Partition coefficient: n-octanol/water:	no data available
	Relative vapour density:	no data available
	Odour:	no data available
	Odour threshold:	no data available
	Evaporation rate:	no data available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.	
Possibility of hazardous reactions:	no data available	
Conditions to avoid:	Avoid moisture.	
Materials to avoid:	Alcohols, oxidizing agents, strong bases.	
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions: Carbon oxides, Hydrogen chloride gas. Other decomposition products: no data available.	
Radioactivity:	Stable isotope compound. Not radioactive.	

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Oral LD50:	no data available
	Inhalation LC50:	no data available
	Dermal LD50:	no data available
	Other information on acute toxicity:	no data available
Skin corrosion/irritation:	no data available	

Serious eye damage/eye irritation:	no data available
Respiratory or skin sensitization:	no data available
Germ cell mutagenicity:	no data available
Carcinogenicity:	IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity:	no data available
Teratogenicity:	no data available
Specific target organ toxicity:	Single exposure (Globally Harmonized System): no data available Repeated exposure (Globally Harmonized System): no data available
Aspiration hazard:	no data available
Potential health effects:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Signs and symptoms of exposure:	Cough, shortness of breath, headache, nausea, vomiting.
Synergistic effects:	no data available
Additional information:	RTECS: not available

12. ECOLOGICAL INFORMATION

Toxicity:	no data available
Persistence and degradability:	no data available
Bioaccumulative potential:	no data available
Mobility in soil:	no data available
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects:	no data available

13. DISPOSAL CONSIDERATIONS

Product:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging:	Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US):	UN number: 2923 Class: 8 (6.1) Packing group: III Proper shipping name: Corrosive solids, toxic, n.o.s. (Terephthaloyl-d4 chloride) Poison Inhalation Hazard: No
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IMDG:	UN number: 2923 Class: 8 (6.1) Packing group: III EMS-No: F-A, S-B Proper shipping name: Corrosive solids, toxic, n.o.s. (Terephthaloyl-d4 chloride)
IATA:	UN number: 2923 Class: 8 (6.1) Packing group: III Proper shipping name: Corrosive solids, toxic, n.o.s. (Terephthaloyl-d4 chloride)

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

16. OTHER INFORMATION

Date of the latest revision:	21 April 2021
Further information:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Polymer Source, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See www.polymersource.ca for additional terms and conditions of sale.