



Safety Data Sheet

Version 8.1
Revision Date: 31/10/2021

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **4-CRYANO-4(((ETHYLTHIO)CARBONOTHIOYL)THIO)PENTANOIC ACID**

Product abbreviation: CTA-1, CECTP

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

Emergency overview GHS classification: Acute toxicity, Oral (Category 4), H302

GHS Label elements, including precautionary statements:

Pictogram: 

Signal word: Warning

Hazard statements: H302 Harmful if swallowed.

Precautionary statements: P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Formula: 4-Cyano-4-(((ethylthio)carbonothioyl)thio) pentanoic acid $C_9H_{13}NO_2S_3$

Synonym: 4-Cyano-4-[(ethylsulfanylthiocarbonyl)sulfanyl] pentanoic acid

Concentration: > 98%

CAS registry number: 1137725-46-2

4. FIRST AID MEASURES

General advice:	Consult a physician. Show this material 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.
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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use alcohol-resistant foam, dry chemical or carbon dioxide.
	Unsuitable extinguishing media: no data.
Special protective equipment for firefighters:	Wear self-contained breathing apparatus.
	Wear protective clothing to prevent contact with skin and eyes.
Hazardous combustion products:	In combustion toxic fumes may form.
Explosion data:	Sensitivity to mechanical impact: no data available
	Sensitivity to static discharge: no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Do not attempt to take action without suitable protective clothing.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Alert the neighbourhood to the presence of fumes or gas.
Methods and materials for containment and cleaning up:	Mix with sand or vermiculite. Sweep up and shovel. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Wash hands thoroughly after handling. Ensure there is sufficient ventilation of the area. Normal measures for preventive fire protection. For precautions see section 2.2.
Conditions for safe storage:	Keep container tightly closed in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment:

- Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) 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).
- Skin 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: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- Specific engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Form:	solid
	Colour:	no data available
Safety data:	pH:	no data available
	Melting point / Freezing point:	no data available
	Boling point:	no data available
	Flash point:	no data available
	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

Reactivity	This product is ON the EPA Toxic substances Control Act (TSCA) inventory. No data available.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	no data available
Conditions to avoid:	no data available
Materials to avoid:	no data available
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, nitrogen oxides, oxides of sulfur.

11. TOXICOLOGICAL INFORMATION

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:	no data available
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
Additional information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

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:	no data available
Other adverse effects:	no data available

13. DISPOSAL CONSIDERATIONS

Product:	Consult state, local or national regulations for proper disposal. Hand over to authorized disposal company as hazardous waste.
Contaminated packaging:	Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

DOT (US):	Classed non-hazardous for shipping.
IMDG:	Classed non-hazardous for shipping.
IATA:	Classed non-hazardous for shipping.

15. REGULATORY INFORMATION

Safety, health and environmental and national regulations:
Product is not subject to any additional regulations or provisions
California Proposition 65
Not listed on California's listing of known or potential carcinogens.
Safety Assessment
No Chemical Safety Assessment

16. OTHER INFORMATION

Date of the latest revision:	31 October 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.