



<a href="#">Diisopropyl Telluride</a>		<a href="#">Pricing &gt;</a>
Linear Formula	Te(C <sub>3</sub> H <sub>7</sub> ) <sub>2</sub>	
Pubchem CID	123524	
MDL Number	N/A	
EC No.	N/A	
IUPAC Name	2-propan-2-yltellanylpropane	
Beilstein/Reaxys No.	N/A	
SMILES	CC(C)[Te]C(C)C	
Inchl Identifier	InChI=1S/C6H14Te/c1-5(2)7-6(3)4/h5-6H,1-4H3	
Inchl Key	NYOZTOCADHXMEV-UHFFFAOYSA-N	
Signal Word	N/A	
Hazard Statements	N/A	
Hazard Codes	N/A	
Risk Codes	N/A	
Safety Statements	N/A	
Transport Information	N/A	
GHS Pictograms	<a href="#">GHS02 Flame</a>  <a href="#">GHS06 Skull and Crossbones</a> 	

[Create Printable PDF](#)

## SAFETY DATA SHEET

Date Accessed: 04/28/2024

Date Revised: 01/15/2022

### SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #51112-72-2

**Relevant identified uses of the substance:**

Scientific research and development

Supplier details:

American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351

Emergency telephone number:

Domestic, North America +1 800-424-9300

International +1 703-527-3887

---

**SECTION 2. HAZARDS IDENTIFICATION**

Hazard - Risk Classification-

Flammable Liquids: Category 3

Acute Toxicity(Oral): Category 2

Skin Corrosion/Irritation: Category 2

Serious eye damage/eye irritation: Category 2A

Label elements including precautionary statements

Symbol:



Signal Word: Danger

Hazard - Risk Statement

H226 Flammable liquid and Vapor

H300

Fatal if swallowed

H315

Causes skin irritation

H319

Causes serious eye irritation

Precautionary Statement

Prevention

P210

Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P233

Keep container tightly closed.

P240

Ground/bond container and receiving equipment.

P241

Use explosion-proof electrical/ventilating/lighting/.../ equipment.

P242

Use only non-sparking tools.

P243

Take precautionary measures against static

discharge.

P264

Wash ... thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

Response

P321

Specific treatment (see ... on this label).

P330

Rinse mouth.

P362

Take off contaminated clothing and wash before reuse.

P301+P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+P352

IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313

If skin irritation occurs: Get medical advice/attention.

P337+P313

If eye irritation persists: Get medical advice/attention.

P370+P378

In case of fire: Use ... for extinction.

Storage

P405

Store locked up.

P403+P235

Store in a well-ventilated place. Keep cool.

P501

Dispose of contents/container to ...

Other Hazard - Risk which are not included in the classification criteria (e.g. dust explosion hazard):

NFPA Rating

Health Hazard: 3

Fire: 3

Reactivity Hazard: 1

---

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name: Diisopropyltelluride

Other name: 2,2'-tellurobispropane  
Isopropyl telluride  
Diisopropyltellurium  
Diisopropyl telluride  
Molecular Formula:  $\text{Te}[\text{CH}(\text{CH}_3)_2]_2$

---

## **SECTION 4. FIRST AID MEASURES**

### Eye contact

Immediately flush the eyes with copious amounts of water for at least 10-15 minutes.

A victim may need assistance in keeping their eye lids open.

Get immediate medical attention.

### Skin contact

Wash off immediately with plenty of water for at least 15 minutes.

Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay.

### Inhalation

Remove the victim to fresh air.

Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain.

In such cases seek immediate medical assistance.

### Ingestion

Never give anything by mouth to an unconscious person.

Immediately give large quantities of water to drink.

Induce vomiting if person is conscious. Prevent aspiration of vomit.

Turn victim's head to the side.

Indication of immediate medical attention and notes for physician

Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated.

If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

---

## **SECTION 5. FIREFIGHTING MEASURES**

Suitable (and unsuitable) extinguishing media

Suitable: carbon dioxide or dry powder

Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products):

Products of Combustion: CO, CO<sub>2</sub>, tellurium oxide

Special protective equipment and precautions for fire-

fighters

Wear self contained breathing apparatus for fire fighting if necessary.

---

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, gloves and eye/face protection.

Use self-contained breathing apparatus and chemically protective clothing.

Remove all sources of ignition.

Evacuate personnel to safe areas.

Environmental precautions and protective procedures

Do not allow material to enter drains or streams.

Methods and materials for containment and cleaning up

Approach suspected leak areas with caution.

Absorb with inert absorbent materials such as: Dry sand, Vermiculite, Activated charcoal.

Place in appropriate chemical waste container.

---

## **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling

Avoid contact with skin and eyes.

Avoid inhalation of vapor or mist.

Keep away from sources of ignition - No smoking.

Take measures to prevent the build up of electrostatic charge.

Keep away from incompatibles such as oxidizing agent, acids.

Conditions for safe storage (including any incompatibilities)

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

Do not store together with oxidizing

Protect from humidity and water.

Keep container tightly sealed

---

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters (e.g. occupational exposure limit

values, biological limit values)  
Tellurium and compounds (as Te)  
- ACGIH: TWA - 0.1 mg/m<sup>3</sup>  
- OSHA: TWA - 0.1 mg/m<sup>3</sup>  
- NIOSH: TWA - 0.1 mg/m<sup>3</sup>(10h)  
Appropriate engineering controls  
Maintain process conditions to ensure temperature is below product flashpoint.  
Ensure adequate ventilation.  
Provide readily accessible eye wash stations and safety showers.  
Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure  
Personal protective equipment  
Respiratory protection  
Use respirators and components tested and approved under appropriate government 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.  
Eye protection  
Chemical safety goggles.  
Hands protection  
Compatible chemical-resistant gloves.  
Body protection Choose body protection according to the amount and concentration of the dangerous substance at the work place.

---

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance  
Physical state: Liquid  
Color: Yellow  
Odor: garlic odor  
Odor threshold: No data available  
pH: No data available  
Melting point/freezing point: -55oC  
Initial boiling point and boiling range: 49oC at 14torr  
Flashing point: 28 oC  
Evaporation rate: No data available  
Flammability (solid, gas): N/A  
Upper/lower flammability or explosive limits: No data available  
Vapor pressure: 2.6 torr at 20 oC  
Solubility in water: Insoluble  
Vapor density: No data available  
Relative density: 1.365 g/ml  
Partition coefficient: n-octanol/water: No data

available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Formula mass: 213.77 g/mol

---

## **SECTION 10. STABILITY AND REACTIVITY**

Chemical stability and possibility of hazardous reactions: Stable in sealed containers stored under a dry inert atmosphere.

Possibility of hazardous reactions: Can decompose when exposed to light.

Conditions to avoid (e.g. static discharge, shock or vibration, etc) Incompatible materials: Heat, flames, light and sparks.

Incompatible materials: Strong oxidizing agents 10.5

Hazardous decomposition products: CO, CO<sub>2</sub>, tellurium oxide

---

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on the likely routes of exposure

No data available

Health hazards information

- Acute toxic: Tellurium and compounds (as Te)

Oral: 83 mg/Kg – Rat LD<sub>50</sub>

67 mg/Kg – Rabbit LD<sub>50</sub>

45 mg/Kg – Guinea pig LD<sub>50</sub>

20 mg/Kg – Mouse LD<sub>50</sub>

Dermal: No data available

Inhalation: No data available

- Skin corrosive/irritant: Can cause severe burns to the skin.

- Serious eye damage/eye irritation: Can cause serious damage to eyes.

- Respiratory sensitization: No data available

- Skin sensitization: No data available

- Carcinogenicity: No data available

- Germ Cell Mutagenicity : No data available

- Reproductive toxicity: No data available

- Specific target organ toxicity (single exposure): No data available

- Specific target organ toxicity (repeated exposure): No data available

- Aspiration hazard: No data available

---

## **SECTION 12. ECOLOGICAL INFORMATION**

Aquatic and terrestrial ecotoxicity: No data available  
Persistence and degradability: No data available  
Bioaccumulative potential: No data available  
Mobility in soil: No data available  
Other adverse effects: No data available

---

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal method  
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

---

## **SECTION 14. TRANSPORT INFORMATION**

UN number: 3284  
UN proper shipping name: Tellurium compounds  
N.O.S. (Diisopropyltelluride)  
Transport hazard class: 6.1  
Packing group (if applicable): II  
Marin pollution (yes/no): No data available  
Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises: - F-A / S-A

---

## **SECTION 15. REGULATORY INFORMATION**

Industrial Safety and Health Act: Exposure limits  
Setting materials  
Toxic Chemical Control Act: Title compound not listed.  
Dangerous Material Safety Control Act: Title compound not listed.  
Wastes Management Act: Title compound not listed.  
Other requirements in domestic and other countries  
- EPCRA 302 regulations: Tellurium 500/10000 LBS TPQ  
- EPCRA 304 regulations: Tellurium 1 LBS RQ

---

## **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No.



1907/2006 (REACH). 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. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

---