



(6N) 99.9999% Tellurium Metal	Pricing >
2D Tellurene Crystals	Pricing >
2D Tellurene Solution	Pricing >
Tellurium Balls	Pricing >
Tellurium Band	Pricing >
Tellurium Bars	Pricing >
Tellurium Blocks	Pricing >
Tellurium Chunk	Pricing >
Tellurium Coil	Pricing >
Tellurium Concentrate	Pricing >
Tellurium Cubes	Pricing >
Tellurium Cylinder	Pricing >
Tellurium Disc	Pricing >
Tellurium Flake	Pricing >
Tellurium Flange	Pricing >
Tellurium Foil	Pricing >
Tellurium Granules	Pricing >
Tellurium Ingot	Pricing >
Tellurium Lump	Pricing >
Tellurium Mesh	Pricing >
Tellurium Metal	Pricing >
Tellurium Microfoil	Pricing >
Tellurium Microleaf	Pricing >
Tellurium Nanoparticle Dispersion	Pricing >
Tellurium Nanoparticles	Pricing >
Tellurium Nanoprisms	Pricing >
Tellurium Particles	Pricing >
Tellurium Parts	Pricing >
Tellurium Pellets	Pricing >
Tellurium Pieces	Pricing >

Tellurium Plate	Pricing >
Tellurium Powder	Pricing >
Tellurium Puck	Pricing >
Tellurium Ribbon	Pricing >
Tellurium Rings	Pricing >
Tellurium Rod	Pricing >
Tellurium Rotatable Sputtering Target	Pricing >
Tellurium Samples	Pricing >
Tellurium Shavings	Pricing >
Tellurium Sheet	Pricing >
Tellurium Shot	Pricing >
Tellurium Single Crystal	Pricing >
Tellurium Sleeves	Pricing >
Tellurium Slugs	Pricing >
Tellurium Specimen	Pricing >
Tellurium Spheres	Pricing >
Tellurium Spring	Pricing >
Tellurium Sputtering Target	Pricing >
Tellurium Strip	Pricing >
Tellurium Tape	Pricing >
Tellurium Tube	Pricing >
Tellurium Wafer	Pricing >
Tellurium Wire	Pricing >
Ultra Thin Tellurium Nanofilm	Pricing >

Linear Formula	Te
Pubchem CID	6327182
MDL Number	MFCD00134062
EC No.	236-813-4
Beilstein/Reaxys No.	N/A
SMILES	[Te]
InChI Identifier	InChI=1S/Te
InChI Key	PORWMNRCUJJQNO-UHFFFAOYSA-N
Signal Word	Danger
Hazard Statements	H317-H332-H360-H412

Hazard Codes	Xn
Precautionary Statements	P201-P261-P280-P308+P313
Risk Codes	N/A
Safety Statements	N/A
Transport Information	NONH for all modes of transport
WGK Germany	2
GHS Pictograms	<p><u>GHS07</u> <u>Exclamation Point</u></p>  <p><u>GHS08 Health Hazard</u></p> 

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SAFETY DATA SHEET

Date Accessed: 08/10/2022

Date Revised: 05/15/2015

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #13494-80-9

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

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Hazards not otherwise classified

No data available

Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labeled according to the CLP regulation.

Hazard pictograms



GHS06

Signal word: Danger

Hazard statements

H301 Toxic if swallowed.

H332 Harmful if inhaled.

Precautionary statements

P261 Avoid breathing
dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P304+P340 IF INHALED: Remove victim to fresh air
and keep at rest in a position comfortable for
breathing.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance
with local/regional/national/international regulations.

WHMIS classification

D1A - Very toxic material causing immediate and
serious toxic effects

Classification system

HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

Health (acute effects) = 1

Flammability = 0

Physical Hazard = 0

Other hazards

Results of PBT and vPvB assessment

PBT: N/A

vPvB: N/A

SECTION 3. COMPOSITION/INFORMATION

ON INGREDIENTS

Substances

CAS No. / Substance Name:

13494-80-9 Tellurium

Identification number(s):

EC number:

236-813-4

SECTION 4. FIRST AID MEASURES

Description of first aid measures

General information

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

If inhaled:

Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

In case of skin contact:

Immediately wash with soap and water; rinse thoroughly.

Seek immediate medical advice.

In case of eye contact:

Rinse opened eye for several minutes under running water. Consult a physician.

If swallowed:

Do not induce vomiting; immediately call for medical help.

Information for doctor

Most important symptoms and effects, both acute and delayed

No data available

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents

Special powder for metal fires. Do not use water.

For safety reasons unsuitable extinguishing agents

Water

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Metal oxide fume

Hydrogen telluride

Advice for firefighters

Protective equipment:
Wear self-contained respirator.
Wear fully protective impervious suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Environmental precautions:
Do not allow material to be released to the environment without official permits.
Do not allow product to enter drains, sewage systems, or other water courses.
Do not allow material to penetrate the ground or soil.
Methods and materials for containment and cleanup:
Dispose of contaminated material as waste according to section 13.
Prevention of secondary hazards:
No special measures required.
Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Handling
Precautions for safe handling
Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation at the workplace.
Information about protection against explosions and fires:
No data available
Conditions for safe storage, including any incompatibilities
Requirements to be met by storerooms and receptacles:
No special requirements.
Information about storage in one common storage facility:
Do not store together with acids.
Store away from strong bases.
Reacts with certain metals.
Store away from halogens.
Do not store with interhalogens.

Store away from oxidizing agents.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well-sealed containers.
Specific end use(s)
No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Control parameters
Components with limit values that require monitoring at the workplace:
13494-80-9 Tellurium (100.0%)
PEL (USA) Long-term value: 0.1 mg/m³
as Te
REL (USA) Long-term value: 0.1 mg/m³
as Te
TLV (USA) Long-term value: 0.1 mg/m³
as Te
EL (Canada) Long-term value: 0.1 mg/m³
EV (Canada) Long-term value: 0.1 mg/m³
as tellurium
Additional information:
No data
Exposure controls
Personal protective equipment
Follow typical protective and hygienic practices for handling chemicals.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Maintain an ergonomically appropriate working environment.
Breathing equipment:
Use suitable respirator when high concentrations are present.
Protection of hands:
Impervious gloves
Inspect gloves prior to use.
Suitability of gloves should be determined both by material and quality, the latter of which may vary by manufacturer.
Penetration time of glove material (in minutes)

No data available
Eye protection:
Safety glasses
Body protection:
Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Form: Solid in various forms

Color: Silvery-white

Odor: Odorless

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: 449.5 °C (841 °F)

Boiling point/Boiling range: 989.8 °C (1814 °F)

Sublimation temperature / start: No data available

Flammability (solid, gas)

No data available.

Ignition temperature: No data available

Decomposition temperature: No data available

Autoignition: No data available.

Danger of explosion: No data available.

Explosion limits:

Lower: No data available

Upper: No data available

Vapor pressure: N/A

Density at 20 °C (68 °F): 6.24 g/cm³ (52.073 lbs/gal)

Relative density

No data available.

Vapor density

N/A

Evaporation rate

N/A

Solubility in Water (H₂O): Insoluble

Partition coefficient (n-octanol/water): No data available.

Viscosity:

Dynamic: N/A

Kinematic: N/A

Other information

No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:
Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions
Reacts with certain metals.
Conditions to avoid
No data available
Incompatible materials:
Acids
Bases
Halogens
Interhalogens
Oxidizing agents
Hazardous decomposition products:
Metal oxide fume
Hydrogen telluride

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

Toxic if swallowed.

The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product.

LD/LC50 values that are relevant for classification:

Oral LD50 83 mg/kg (rat)

Inhalative LC50/4H >2420 mg/m³/4H (rat)

Skin irritation or corrosion:

No irritant effect.

Eye irritation or corrosion:

May cause irritation

Sensitization:

No sensitizing effects known.

Germ cell mutagenicity:

No effects known.

Carcinogenicity:

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Reproductive toxicity:

No effects known.

Specific target organ system toxicity - repeated exposure:

No effects known.

Specific target organ system toxicity - single exposure:

No effects known.

Aspiration hazard:

No effects known.

Subacute to chronic toxicity:

The Registry of Toxic Effects of Chemical Substances

(RTECS) contains multiple dose toxicity data for this substance.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive and/or mutation data for components in this product.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity:

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Additional ecological information:

Do not allow material to be released to the environment without official permits.

Do not allow undiluted product or large quantities to reach groundwater, water courses, or sewage systems.

Avoid transfer into the environment.

Results of PBT and vPvB assessment

PBT:

N/A

vPvB:

N/A

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation

Consult official regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

UN-Number

DOT, ADN, IMDG, IATA

N/A
UN proper shipping name
DOT, ADN, IMDG, IATA
N/A
Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA
Class
N/A
Packing group
DOT, IMDG, IATA
N/A
Environmental hazards:
N/A
Special precautions for user
N/A
Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code
N/A
Transport/Additional information:
DOT
Marine Pollutant (DOT):
No

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations
All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.
All components of this product are listed on the Canadian Domestic Substances List (DSL).
SARA Section 313 (specific toxic chemical listings)
Substance is not listed.
California Proposition 65
Prop 65 - Chemicals known to cause cancer
Substance is not listed.
Prop 65 - Developmental toxicity
Substance is not listed.
Prop 65 - Developmental toxicity, female
Substance is not listed.
Prop 65 - Developmental toxicity, male
Substance is not listed.
Information about limitation of use:
For use only by technically qualified individuals.
Other regulations, limitations and prohibitive regulations
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.
Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use)

Substance is not listed.

REACH - Pre-registered substances

Substance is listed.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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.
