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### **1** Identification

- · Product name
- · Trade name: <u>Tellurium broken ingot (99.9999%)</u>
- Item number: 52-0030
- · CAS Number:
- 13494-80-9
- *EC number:* 236-813-4
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Strem Chemicals, Inc.
- 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com
- · Information department: Technical Department
- Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600

## 2 Hazard(s) identification

· Classification of the substance or mixture

GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H331 Toxic if inhaled.



*Repr. 1A* H360 May damage fertility or the unborn child.

- · Label elements
- · GHS label elements
- *The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms*



· Signal word Danger

Hazard-determining components of labeling: tellurium
Hazard statements H301+H331 Toxic if swallowed or if inhaled. H360 May damage fertility or the unborn child.
Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection.

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rade name: Tellur	um broken ingot (99.9999%)
P403+P233 P501	(Contd. of page 1 Avoid breathing dust/fume/gas/mist/vapors/spray IF SWALLOWED: Immediately call a POISON CENTER/ doctor. 38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if presen and easy to do. Continue rinsing. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/internationa regulations.
	ccale 0 - 4) ealth = 4
	$re = 0$ eactivity = 0 $scale \ 0 - 4$
FIRE 0	$\begin{aligned} Health &= *3\\ Fire &= 0\\ Reactivity &= 0 \end{aligned}$
• Other hazards • Results of PBT of • PBT: Not applic • vPvB: Not appli	
3 Composition/	information on ingredients
· Chemical chara · CAS No. Descri	cterization: Substances ption
13494-80-9 telli	rium
• Identification n • EC number: 23	
4 First-aid mea	sures

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- *After swallowing:* Do not induce vomiting; immediately call for medical help.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

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#### **5** Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: No special measures required.
- *Methods and material for containment and cleaning up:* Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- **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.
- Protective Action Criteria for Chemicals

#### · PAC-1:

1.8 mg/m3

· PAC-3:

· PAC-2:

20 mg/m3

110 mg/m3

#### 7 Handling and storage

· Handling:

- · Precautions for safe handling
- Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

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· Control	parameters
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· Components with limit values that require monitoring at the workplace:

13494-80-9 tellurium PEL Long-term value: 0.1 mg/m<sup>3</sup>

as Te

*REL* Long-term value: 0.1 mg/m<sup>3</sup> as Te TLV Long-term value: 0.1 mg/m<sup>3</sup>

as Te

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. · Breathing equipment: A NIOSH approved respirator in accordance with 29 CFR 1910.134.
- · Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Safety glasses

• Information on basic physical and • General Information • Appearance:	chemical properties	
Form:	Chunks	
Color:	Grey	
· Odor:	Odorless	
• Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	449.5 °C (841 °F)	
Boiling point/Boiling range:	989.8 °C (1814 °F)	

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Trade name:	Tellurium	broken	ingot	(99.9999%)
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		(Contd. of page
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not determined.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Not determined.	
• Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	1 hPa (1 mm Hg)	
• Density at 20 •C (68 •F):	6.24 g/cm <sup>3</sup> (52.0728 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.0 g/l / 0.00 lb/gl	
Solids content:	100.0 %	
• Other information	No further relevant information available.	

# **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- $\cdot \textit{Incompatible materials: } No further relevant information available.$
- · Hazardous decomposition products: No dangerous decomposition products known.

# **11 Toxicological information**

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

Oral LD50 67 mg/kg (rabbit)

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#### Trade name: Tellurium broken ingot (99.9999%)

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#### **13494-80-9 tellurium** Oral LD50 83 mg/kg (rat)

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

#### · Carcinogenic categories

- · IARC (International Agency for Research on Cancer)
- Substance is not listed.
- · NTP (National Toxicology Program)
- Substance is not listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

### **12** Ecological information

#### · Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

#### **13 Disposal considerations**

- · Waste treatment methods
- *Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

· UN-Number		
· DOT, IMDG, IATA	UN3288	
· UN proper shipping name		
$\cdot DOT$	Toxic solid, inorganic, n.o.s.	
· IMDG, IATA	TOXIC SOLID, INORGANIC, N.O.S.	

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• Transport hazard class(es)	
DOT	
TOXIC	
6	
· Class	6.1 Toxic substances
· Label	6.1
· IMDG	
· Class · Label	6 6.1
	0.1
· IATA	
6	
· Class	6.1 Toxic substances
· Label	6.1
· Packing group	
· DOT, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	No
$\cdot$ Special precautions for user	Not applicable.
· Danger code (Kemler):	60 E A S A
· EMS Number: · Stowage Category	F-A,S-A A
• Transport in bulk according to Annex . MARPOL73/78 and the IBC Code	<i>Not applicable.</i>
• Transport/Additional information:	
-	
· DOT · Quantity limitations	On passenger aircraft/rail: 100 kg
Luuniny unnunons	On cargo aircraft only: 200 kg
· IMDG	······
· Limited quantities (LQ)	5kg
• Excepted quantities $(EQ)$	Code: El
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
· UN ''Model Regulation'':	UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III

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#### **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

• Section 355 (extremely hazardous substances):

Substance is listed.

• Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

 $\cdot$  NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements

*The substance is classified and labeled according to the Globally Harmonized System (GHS).* • *Hazard pictograms* 



· Signal word Danger

Hazard-determining components of labeling: tellurium
Hazard statements H301+H331 Toxic if swallowed or if inhaled. H360 May damage fertility or the unborn child.
Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapors/spray P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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	(Contd. of pag
P403+P233 P501	Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/internation
· Chemical safet	regulations. <b>y assessment:</b> A Chemical Safety Assessment has not been carried out.
16 Other inform	nation
	on is based on our present knowledge. However, this shall not constitute a guarantee for a t features and shall not establish a legally valid contractual relationship.
· Department iss	uing SDS: Technical Department.
· Contact: Techn	
Date of an area	$(1 - 1)^{-1} = (1 -$
	ation / last revision 07/18/2021 / -
· Abbreviations a	and acronyms:
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