



Page 1/4 Printing date 07/28/2017 Revision date 07/27/2017 Version 1

	Version 1
1 Identification	
Product identifier	
Product name: <u>Tellurium lump</u>	
Stock number: 10362 CAS Number:	
13494-80-9 EC number:	
236-813-4	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
30 Bond Street Ward Hill, MA 01835-8099	
Tel: 800-343-0660	
Fax: 800-322-4757 Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS06 Skull and crossbones	
Acute Tox. 3 H301 Toxic if swallowed. Hazards not otherwise classified No information known.	
Label elements	
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS06	
Signal word Danger	
Hazard statements	
H301 Toxic if swallowed. Precautionary statements	
P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P321 Specific treatment (see on this label).	
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	
D1B - Toxic material causing immediate and serious toxic effects	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 PIRE I Flammability = 0 PIRE I C	
Fire Flammàbility = 0 ´ Reactivity Physical Hazard = 0	
Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
13494-80-9 Tellurium	
Concentration: ≤100% Identification number(s):	
EC number: 236-813-4	
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.	
After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
Seek immediate medical advice.	ntd. on page 2)
	USA —

Product name: Tellurium lump

(Contd. of page 1) 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 Toxic if swallowed. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media 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: Tellurum dioxide (TeO2) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away Ensure adequate ventilation Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: 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 7 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: 18 ma/m3 **PAC-1:** 1.8 mg/m3 **PAC-2:** 20 mg/m3 **PAC-3:** 110 mg/m3 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 information known. 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: Do not store together with acids. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available. 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 Long-term value: 0.1 mg/m³ as Te REL (USA) 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 Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. 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 Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves The protocy gives of the provident of the proper condition. Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) 480 Glove thickness: 0.11 mm Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing. USA

(Contd. on page 3)

Product name: **Tellurium lump**

(Contd. of page 2)

	(Contd. of page 2,	
9 Physical and chemical propertie	25	
Information on basic physical and c		
General Information		
Appearance: Form:	Solid in various forms	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range: Boiling point/Boiling range:	449.5 °C (841 °F) 989.8 °C (1814 °F)	
Sublimation temperature / start:	Not determined	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable	
Density at 20 °C (68 °F):	6.24 g/cm³ (52.073 lbs/gal)	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water	Insoluble r): Not determined	
Viscosity:	n not autominou.	
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recon	nmended storage conditions	
Thermal decomposition / conditions	nmended storage conditions. • to be avoided : Decomposition will not occur if used and stored according to specifications. In dependencing registrong registrong the store of the store	
	io dangerous reactions known	
Conditions to avoid No further relevant Incompatible materials: Acids	nt information available.	
Hazardous decomposition products	: Tellurium dioxide (TeO2)	
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 this substance.		
LD/LC50 values that are relevant for classification:		
Oral LD50 83 mg/kg (rat)		
Skin irritation or corrosion: May cau	se initiation	
Eye irritation or corrosion: May caus Sensitization: No sensitizing effects k	e Irritation nown	
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: The Registry c	of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.	
Specific target organ system toxicity	y - repeated exposure: No effects known.	
Specific target organ system toxicity - single exposure: No effects known.		
Aspiration hazard: No effects known.		
Aspiration hazaro: No enecis 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.		
Additional toxicological information	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
12 Ecological information		
12 Ecological information		
Toxicity	nformation available	
Persistence and degradability No fur	Information available.	
Aquatic toxicity: No further relevant in Persistence and degradability No fur Bioaccumulative potential No further	relevant information available.	
Mobility in soil No further relevant info Additional ecological information:	prmation available.	
General notes:		
Do not allow undiluted product or large	quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessme	nt	
PBT: Not applicable.		
vPvB: Not applicable. Other adverse effects No further relevant information available.		
other adverse effects No further relev		
13 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, local	or national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.		
nevonmenuation. Disposal must be l	made according to onicial regulations.	

Product name: Tellurium lump

	(Contd. of page 3)
14 Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, ADR, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPO	
Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	Not applicable
15 Regulatory information Safety, health and environmental regulations/legis GHS label elements The product is classified and lab Hazard pictograms GHS06	I ation specific for the substance or mixture beled in accordance with 29 CFR 1910 (OSHA HCS)
National regulations All components of this product are listed in the U.S. El All components of this product are listed on the Canac SARA Section 313 (specific toxic chemical listings California Proposition 65 Prop 65 - Chemicals known to cause cancer Substa Prop 65 - Developmental toxicity Substance is not li Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, male Substance Information about limitations of use: For use only by Other regulations, limitations and prohibitive regu Substance of Very High Concern (SVHC) accordin The conditions of restrictions according to Article market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring A Chemical safety assessment: A Chemical Safety As	nce with local/regional/national/international regulations. invironmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. dian Domestic Substances List (DSL). s) Substance is not listed. isted. e is not listed. / technically qualified individuals. / technically qualified individuals. / technically qualified individuals. / ations g to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
information to ensure proper use and protect the healt conformance with this Safety Data Sheet, or in combin	lement to other information gathered by them, and should make independent judgement of suitability of this th and safety of employees. This information is furnished without warranty, and any use of the product not in nation with any other product or process, is the responsibility of the user.
Abbreviations and acronyms:	ate and version number are in the header of each page. s par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) nces lociety)
Acute Tox. 3: Acute toxicity – Category 3	USA