Safety Data Sheet



acc. to USHA HCS Printing da Revision da	te 09/07/2016 te 09/06/2016
1 Identification	
Product identifier	
Product name: <u>Tellurium(IV) chloride</u>	
Stock number: 12284 CAS Number:	
10026-07-0 EC number:	
233-055-6	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier	
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.	
30 Bond Street Ward Hill, MA 01835-8099	
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)	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage.	
Eye Dam. 1 H318 Causes serious eye damage. 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	
A CONTRACTOR OF THE OWNER OWNER OF THE OWNER	
GHS05	
Signal word Danger	
Hazard statements	
H314 Causes severe skin burns and eye damage. Precautionary statements	
P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eve protection/face protection.	
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing	
P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Remove/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. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER/doctor. P363 Wash contaminated clothing before reuse.	
P310 Immediately call a POISON CENTER/doctor.	
P363 Wash contaminated clothing before reuse. P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D2B - Toxic material causing other toxic effects	
E - Corrosive material	
Classification system	
HMSS ratings (scale 0-4) (Hazardous Materials Identification System)	
$\frac{ Hazardous Materials Identification System)}{ Health (acute effects) = 3}$	
Fire 9 Flammability = 0	
REACTIVITY Physical Hazard = 1 Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances	
CAS# Description: 10026-07-0 Tellurium(IV) chloride	
Identification number(ś): EC number: 233-055-6	
4 First-aid measures Description of first aid measures	
General information Immediately remove any clothing soiled by the product.	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
	ontd. on page 2) USA

Product name: Tellurium(IV) chloride	
Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Tellurum dioxide (TeO2) Hydrogen chloride (HCI) 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 Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. 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.	
7 Handling and storage Handling Precautions for safe handling Handle under dry protective gas. 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: The product is not flammable 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: Store away from water/moisture. Store away from storing bases. Store away from storing bases. Store away from storing bases. Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. 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: 10026-07-0 Tellurium(IV) chloride (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 as Te Fersonal protective equipment General protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.	
Remove áll soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.	(Contd. on page 3) USA

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Recommended filter device for short t Use a respirator with type P100 (USA) or	erm use: [,] P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to dete	ermine if air-		
Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands:				
Impervious gloves				
The selection of suitable gloves not only Material of gloves Nitrile rubber, NBR	e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.			
Penetration time of glove material (in I Glove thickness 0.11 mm	minutes) 480			
Eye protection: Tightly sealed goggles				
Full fáce protection				
Body protection: Protective work clothin	ıy.			
9 Physical and chemical properties Information on basic physical and chemical properties				
General Information Appearance:				
Form: Odor:	Crystalline			
Odor threshold:	Pungent Not determined.			
pH-value:	Not applicable.			
Change in condition Melting point/Melting range:	224 °C (435 °F)			
Boiling point/Boiling range: Sublimation temperature / start:	380 °C (716 °F) Not determined			
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined.			
Danger of explosion:	Not determined.			
Explosion limits: Lower:	Not determined			
Upper: Vapor pressure:	Not determined Not applicable.			
Density at 20 °C (68 °F): Relative density	3.01 g/cm³ (25.118 lbs/gal) Not determined.			
Vapor density Evaporation rate	Not applicable. Not applicable.			
Solubility in / Miscibility with Water:	Not determined			
Partition coefficient (n-octanol/water):				
Viscosity: dynamic:	Not applicable.			
kìnematic: Other information	Not applicable. No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known				
Chemical stability Stable under recomn	nended storage conditions. b be avoided: Decomposition will not occur if used and stored according to specifications.			
Possibility of nazardous reactions Reacts with strong oxidizing agents				
Conditions to avoid No further relevant information available. Incompatible materials:				
Water/moisture Bases				
Oxidizing agents Hazardous decomposition products:				
Tellurium dioxide (TeO2) Hydrogen chloride (HCl)				
11 Toxicological information				
Information on toxicological effects				
Acute toxicity: Swallowing will lead to a strong corrosive	effect on mouth and throat and to the danger of perforation of esophagus and stomach.			
Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification: No data				
Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes ser	vere skin burns.			
Sensitization: No sensitizing effects kno	wn. f Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.			
Carcinogenicity: No classification data d	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Reproductive foxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance. Specific target organ system toxicity - repeated exposure: No effects known.				
Specific target organ system toxicity - Aspiration hazard: No effects known.	•			
Additional toxicological information: 7	stry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substanc To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	;e.		
Carcinogenic categories OSHA-Ca (Occupational Safety & Heal	th Administration) 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.				
Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.				
wooning in son no further relevant infor		(Contd. on page 4)		
		USA		

Product name: Tellurium(IV) chloride			
Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground wate Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	(Contd. of page 3) r, water course or sewage system.		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure Uncleaned packagings: Recommendation: Disposal must be made according to official regula			
14 Transport information			
UN-Number DOT, IMDG, IATA	UN3260		
UN proper shipping name			
DOT INTO IMDG, IATA	Corrosive solid, acidic, inorganic, n.o.s. (Tellurium(IV) chloride) CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Tellurium(IV) chloride)		
Transport hazard class(es) DOT			
Class Label	8 Corrosive substances. 8		
Class Label IMDG, IATA	8 (C2) Corrosive substances 8		
Class Label	8 Corrosive substances. 8		
Packing group DOT, IMDG, IATA	11		
Environmental hazards:	Not applicable.		
Special precautions for user EMS Number: Segregation groups	Warning: Corrosive substances F-A,S-B Acids		
Transport in bulk according to Annex II of MARPOL73/78 and the I Transport/Additional information:	BC Code Not applicable.		
DOT Marine Pollutant (DOT):	No		
UN "Model Regulation":	UN3260, Corrosive solid, acidic, inorganic, n.o.s. (Tellurium(IV) chloride), 8, II		
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms GHS05			
P310 Immediately call a POISON CENTER/doctor. P363 Wash contaminated clothing before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with lo National regulations	minutes. Remove contact lenses, if present and easy to do. Continue rinsing. niting. t rest in a position comfortable for breathing. cal/regional/national/international regulations. tection Agency Toxic Substances Control Act Chemical substance Inventory. ic Substances List (NDSL). of listed.		

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USA

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. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 09/07/2016 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent CAS: International Toxicology Program (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MAR: Skin corrosion/irritation, Hazard Category 18 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1