

1.

Safety Data Sheet

Version 1.2 Revision Date 07/29/2021

PRODUCT AND COMPANY IDENTIFICATION		
Product Name	Tellurium Ingot, Enriched Tellurium	
Chemical Formula	Те	
Molecular Weight	127.60 g/mol	
CAS No.	13494-80-9	
EINECS/ELINCS No.	236-813-4	
Synonyms	Telloy, Tellur (Polish), Tellurium (ACGIH:OSHA), Tellurium Element	
Supplier Address*	ISOFLEX USA PO Box 29475 San Francisco CA 94129 United States	
Telephone	+1 415-440-4433	
Fax	+1 415-563-4433	
Emergency Phone Number (both supplier and manufacturer)	Infotrac/ +1 800-535-5053 *May include subsidiaries or affiliate companies/divisions	
Email	iusa@isoflex.com	
Website	www.isoflex.com	
Preparation Information	ISOFLEX USA Product Safety +1 415-440-4433	

2. HAZARDS IDENTIFICATION

Emergency Overview:

Flammable (USA) Highly flammable (EU) Highly toxic (USA) Very toxic (EU) Very toxic if swallowed, inhaled, or in contact with skin

Target Organs:

Central nervous system

Keep away from sources of ignition - NO SMOKING

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) Take off immediately all contaminated clothing

Wear suitable protective clothing, gloves and eye/face protection

NFPA Ratings: (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe) Health Hazard = 2 Flammability = 0 Reactivity = 0



HMIS Ratings: (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)Health Hazard = 2Flammability = 0Physical Hazard = 0

HEALTH HAZARD	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

3.	COMPOSITION/INFORMATION ON I	NGREDIENTS
	Product Name Tellur	ium Ingot, Enriched Tellurium
	Chemical Formula	
	Molecular Weight 127.6	0 g/mol
	CAS No. 13494	1-80-9
4.	FIRST AID MEASURES	
	Ingestion	If swallowed, wash out mouth with water, provided person is conscious. Call a physician. Never give anything by mouth to an unconscious person.
	Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
	Dermal Exposure	In case of contact, immediately wash skin with soap and copious amounts of water.
	Eye Exposure	Contamination of the eyes should be treated by immediate and prolonged irrigation with copious amounts of water. Assure adequate flushing of the eyes by separating the eyelids with fingers.
	Additional Information	Most important symptoms, and effects both acute and delayed, include nausea, headache, vomiting, and central nervous system depression.
5.	FIREFIGHTING MEASURES	
	Suitable Extinguishing Media	Use water spray, alcohol resistant foam, dry chemical powder or carbon dioxide.
	Special Firefighting Procedures	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
	Special Hazards Arising from the Substance	Tellurium oxides
	Unusual Fire and Explosions Hazards	This material, like most materials in powder form, is capable of creating a dust explosion. Flammable solid. Emits toxic fumes under fire conditions.

6.	ACCIDENTAL RELEASE MEASURES			
	Personal Precautions	Evacuate area. Shut off all sources of ignition. Use non-sparking tools. Wear self-contained breathing apparatus, rubber boots and heavy rubbe gloves.		
	Environmental Precautions	Do not let product enter drains.		
	Methods for Cleaning Up	Sweep up, place in a bag and hold for waste disposal. Avoid raising dus Ventilate area and wash spill site after material pickup is complete.		
7.	HANDLING AND STORAGE			
	Handling	Avoid contact with skin and eyes, and formation of dusts and aerosols.		
	Storage	Store in a cool place. Keep container tightly closed in a dry and well- ventilated place.		
8.	EXPOSURE CONTROLS / PERSONAL PROTECTION			
	Engineering Controls	Workplace Control Parameters: TWA - 0.1mg/m ³ - UK		
		Workplace Exposure Limits: EH40 WEL 0		
		Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.		
	Personal Protective Equipme	ent		
	Respirators	Wear appropriate NIOSH/MSHA-approved respirator. Use only in a chemical fume hood. Do not breathe dust.		
	Hand	Wear chemical-resistant gloves.		
	Eye	Wear safety goggles, face shield, other protective clothing. Safety shower and eye bath. Do not get in eyes or on skin or clothing.		
	Hygiene <mark>Me</mark> asures	Wash thoroughly after handling. Remove and wash contaminated clothing promptly.		
	General	Avoid prolonged or repeated exposure. Keep tightly closed. Keep away from heat, sparks and open flame. Avoid contact with acid.		

Appearance

Color	Silvery	/-white or dark gray piece	es
Odor	Odorle	ess	
Safety Data			
Boiling Point:	990 °C	Melting Point:	450 °C
Specific Gravity:	N/A	Relative Density:	6.24g/mL at 25 °C
% Volatiles:	N/E or N/A	Solubility in H₂O:	Insoluble

10. STABILITY AND REACTIVITY

Incompatible Materials

Hazardous Combustion or Decomposition Products

Zinc, cadmium, sodium, potassium, strong acids, strong bases, halogens Nature of decomposition products not known

11.	TOXICOLOGICAL INFORMATION	
	Acute Toxicity	LD50 Oral - Rat - 83 mg/kg
		May be fatal if inhaled, swallowed, or absorbed through skin. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.
	Carcinogenicity	
	IARC	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen.
	Reproductive Toxicity	Reproductive toxicity - Rat - Intramuscular
	Effects on Fertility	Post-implantation mortality (dead or resorbed implants per total number of implants). Specific Developmental Abnormalities: central nervous system.
		Developmental Toxicity - Rat - Oral
	Effects on Embryo or Fetus	Fetotoxicity (except death). Specific Developmental Abnormalities: musculoskeletal system. Effect on Newborn: Other neonatal measure or effects.
		Developmental Toxicity - Rat - Oral
		Specific Developmental Abnormalities: central nervous system.
		Developmental Toxicity - Rat - Oral
	Specific Developmental Abnormalities	Craniofacial (including nose and tongue). Musculoskeletal system.
	Other	Exposure can cause nausea, headache and vomiting, central nervous system depression
12.	ECOLOGICAL INFORMATION	
	Toxicity	Do not empty into drains. Harmful to aquatic organisms. May cause long- term adverse effects in the aquatic environment.
	Persistence and Degradability	Insoluble in water
	Bioaccumulation/Accumulation	No information available
	Mobility	Not likely mobile in the environment due to its low water solubility
13.	DISPOSAL CONSIDERATIONS	
	Product	Material in the elemental state should be recovered for reuse or

Material in the elemental state should be recovered for reuse or recycling. Contact licensed professional waste disposal service to dispose of this material. Dissolve the material in a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name None

This substance is considered to be non-hazardous for transport.

ΙΑΤΑ

Non-Hazardous for Air Transport: Non-hazardous for air transport.

15. REGULATORY INFORMATION

U.S. Federal Regulations	
TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazards	Acute Health Hazard, Chronic Health Hazard
Clean Water Act	Not applicable
Clean Air Act	Not applicable
OSHA	Not applicable
CERCLA	Not applicable
WHMIS Hazard Class	D1A Very toxic material
Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act.
New Jersey Right to Know Components	No components are subject to the New Jersey Right to Know Act.
Pennsylvania Right to Know Components	No components are subject to the Pennsylvania Right to Know Act.
Rhode Island Right to Know Components	No components are subject to the Rhode Island Right to Know Act.
California Prop. 65 Components	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Prepared By	ISOFLEX USA PO Box 29475 San Francisco CA 94129 United States
Issuing Date	September 15, 2014
Revision Date	July 29, 2021
Revision Number	3
Revision Note	Required review and update

ISOFLEX USA's Commonly Used Abbreviations and Acronyms*

ACGIH	American Conference of Governmental Industrial Hygienists
ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
ALARA	As Low As Is Reasonably Achievable
AMU	Atomic Mass Unit
ANSI	American National Standards Institute
BLS	Basic Life Support
CAM	Continuous Air Monitor
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CEN	European Committee for Standardization
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CLP	Classification, Labelling and Packaging (European Union)
CPR	Controlled Products Regulations (Canada)
CWA	a
	Clean Water Act (USA)
DAC	Derived Air Concentration (USA)
DOE	United States Department of Energy (USA)
DOT	United States Department of Transportation (USA)
DSL	Domestic Substances List (Canada)
EC50	Half Maximal Effective Concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
EHS	Environmentally Hazardous Substance
ELINCS	European List of Notified Chemical Substances
EMS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA	Environmental Protection Agency (USA)
EPCRA	Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986
GHS	Globally Harmonized System
HMIS	Hazardous Materials Identification System (USA)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Containers
ICAO	International Civil Aviation Organization
IDLH	Immediately Dangerous to Life or Health
IMDG	International Maritime Code for Dangerous Goods
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
LDLO	Lethal Dose Low
LOEC	Lowest-Observed-Effective Concentration
MARPOL	International Convention for the Prevention of Pollution from Ships
MSHA	Mine Safety and Health Administration (USA)
NCRP	National Council on Radiation Protection & Measurements (USA)
NDSL	Non-Domestic Substances List (Canada)
NFPA	National Fire Protection Association (USA)
NIOSH	National Institute for Occupational Safety and Health (USA)
NOEC	No Observed Effect Concentration
N.O.S.	Not Otherwise Specified
NRC	Nuclear Regulatory Commission (USA)
NTP	National Toxicology Program (USA)
OSHA	Occupational Safety and Health Administration (USA)
PBT	Persistent Bioaccumulative and Toxic Chemical
PEL	Permissible Exposure Limit
PIH	Poisonous by Inhalation Hazard
RCRA	Resource Conservation and Recovery Act (USA)
RCT	Radiation Control Technician
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
RTECS	Registry of Toxic Effects of Chemical Substances
SARA	Superfund Amendments and Reauthorization Act (USA)
TDG	Transportation of Dangerous Goods (Canada)
TIH	Toxic by Inhalation Hazard
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TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
UN	United Nations (Number)
VOC	Volatile Organic Compound
vPvB	Very Persistent Very Bioaccumulative Chemical
WGK	Wassergefährdungsklassen (Germany: Water Hazard Classes)
WHMIS	Workplace Hazardous Materials Information System

*One or more of the above-listed items may not appear in this document.

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