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## MATERIAL SAFETY DATA SHEET

# Tellurium

MSDS Number : 005

Effective Date : 01/20/09

### I. Product Identification

Trade Name : Tellurium  
 Synonyms : Telloy  
 Chemical Formula : Te  
 Molecular Weight : 127.6  
 Manufacturer : Pacific Rare Specialty Metals And Chemicals, Inc. (PRSMCI)  
 Lot 6 Blk 1, Phase II, West Avenue, Cavite Economic Zone,  
 Rosario, Cavite, Philippines, 4106  
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### II. Composition / Information on Components

Tellurium (CAS# 13494-80-9)  
**Identification number:**  
 EINECS Number: 236-813-4

### III. Hazard Identification

Flammability Rating : 0 (Not combustible)  
 Reactivity Rating : 0 (Not reactive when mixed with water)  
 Health Rating : 1 (relatively low toxicity)  
 Contact Rating : 1 (May cause eye irritation)  
 Protective Equip : Goggles, Gloves, clothing, combo respirator

### IV. First - Aid Measures

**Inhalation** : Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. DO NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

**Ingestion** : DO NOT induce vomiting. If victim is conscious and alert, give 2 ~ 4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical attention immediately. Wash mouth out with water.

**Skin Contact** : Immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eye Contact** : Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## V. Fire Fighting Measures

**Fire and Explosion** : During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Burns in air with a greenish-blue flame, forming tellurium dioxide. May have a hazardous reaction with halogens, interhalogens, metals, hexalithium disilicide, silver bromate and silver iodate.

**Fire Extinguishing Media:** Do NOT get water inside containers. Do NOT use straight streams of water. For small fires, use dry chemical, carbon dioxide or water spray. Cool containers with flooding quantities of water until well after fire is out. For large fires, use water spray, fog or regular foam.

**Special Information** : In the event of a fire, wear full face, self-contained breathing apparatus with full to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

## VI. Accidental Release Measures

Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not get water inside containers.

## VII. Handling and Storage

**Handling** : Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Follow all MSDS and label precautions even after container is emptied because they may contain product residues. Do not breathe dust, vapor, mist or gas. Do not get in eyes, on skin or on clothing. Keep container tightly closed. Use only in a chemical fume hood.

**Storage** : Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

## VIII. Exposure Controls / Personal Protection

**Airborne Exposure Limits** : OSHA PEL : 0.1mg/m<sup>3</sup>

**Respiratory Protection** : Follow the OSHA respirator regulations found in 29CFR1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**Skin Protection** : Wear appropriate protective clothing to prevent skin exposure.

**Eye Protection** : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye or European Standard EN166.

Maintain eye wash station and safety shower.

## IX. Physical and Chemical Properties

Form	: Solid (ingots, powder, granules)	Specific Gravity	: 6.24 at 30 °C
Color	: silvery-white or dark gray	Melting Point	: 450 °C
Odor	: odorless	Boiling Point	: 990 °C
Solubility	: Insoluble in Water		

**X. Stability and Reactivity**

<b>Stability</b>	:	Stable at room temperature in closed containers under normal storage and handling conditions. Slowly tarnishes in air.
<b>Hazardous Decomposition Products:</b>	:	Irritating and toxic fumes and gases
<b>Hazardous Polymerization</b>	:	Will not occur.
<b>Incompatibilities</b>	:	Zinc, strong acids, strong bases, oxidizing agents, active metals, halogens
<b>Conditions to Avoid</b>	:	Incompatible materials, ignition sources, dust generation, excess heat.

**XI. Toxicological Information**

<b>Toxicological Data</b>	:	Oral Rat LD50= 5000 mg/kg; Inhalation, Rat LC50 = >2420 mg/m <sup>3</sup> /4H
<b>Carcinogenicity</b>	:	Not listed by ACGIH, IARC, NIOSH, NTP or OSHA
<b>Teratogenicity</b>	:	No information available.

**XII. Ecological Information**

No information found.

**XIII. Disposal Considerations**

Dispose of in accordance with Local, state and Federal waste disposal regulations.

**XIV. Transport Information**

Not a hazardous material for transportation.

DOT regulations Hazard Class	:	None
Land transport ADR / RID class	:	None
Maritime Transport IMDG Class	:	None
Air transport ICAO-TI and IATA-DGR Class	:	None

**XV. Regulatory Information****US FEDERAL**

**TSCA** : CAS # 13494-80-9 is listed on the TSCA inventory. This material does not contain any Class 2 Ozone depleters.

**Clean Water Act** : None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as priority pollutants under the CWA. None of the chemicals in this product are listed as Toxic pollutants under the CWA.

**OSHA** : None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE** : Tellurium can be found on the following state right to know lists : California, New jersey, Florida, Pennsylvania, Minnesota, Massachusetts. California No Significant Risk Level : None of the chemicals in this product is listed.

**European / International Regulations****European labeling in Accordance with EC Directives**

**Hazard Symbols** : T

**Risk Phrases** : R 25 Toxic if swallowed.

**Safety Phrases** : S 22 Do not breathe dust.

S 24/25 Avoid contact with skin and eyes.

**WGK (Water Danger / Protection)** : CAS # 13494-80-9 – No information available

**Canada – DSL / NDSL** : CAS # 13494-80-9 – not listed in Canada’s DSL List  
**Canadian Ingredient Disclosure List** : CAS# 13494-80-9 is listed on the Canadian Ingredient Disclosure List.  
**Exposure Limits** : CAS# 13494-80-9: OEL- AUSTRALIA : TWA 0.1 mg (Te)/m3 OEL – BELGIUM:TWA 0.1 mg (Te)/m3 OEL – DENMARK: TWA 0.1 mg (Te)/m3 OEL –FINLAND: TWA 0.1 mg (Te)/m3; STEL 0.3 mg (Te)/m3 OE-FRANCE: TWA 0.1 mg (Te)/m3 OEL –GERMANY: TWA 0.1 mg (Te)/m3 OEL – THE NETHERLANDS: TWA 0.1 mg (Te)/m3 OEL – THE PHILIPPINES: TWA 0.1 mg (Te)/m3 OEL –SWEDEN: TWA 0.1 mg (Te)/m3 OEL –SWITZERLAND: TWA 0.1 mg (Te)/m3; STEL 0.5 mg (Te)/m3 OEL –TURKEY: TWA 0.1 mg (Te)/m3 OEL –UNITED KINGDOM: TWA 0.1 mg (Te)/m3 OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV.

**XVI. Other Information**

**HMIS Ratings:** (estimated) Health: **1** ; Flammability: **0**; Instability: **0**

**Disclaimer:**

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