# SAFETY DATA SHEET on Tellurium

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SDS No. MH10-11-004
Creation Date: 2015/6/17
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## 1. Chemical Product

SDS Name : Tellurium
SDS No. : MH10-11-004

## 2. Composition, Information on ingredients

CAS# : 13494-80-9
EINECS# : 236-813-4
Chemical formula: : Tellurium

## 3. Hazardous Identification

Appearance : Solid

Potential Health Effects

Eye : May cause eye irritation

Skin : May cause skin irritation. Contact with the skin may cause skin lesions which are characterized by cracking of the skin and the development of slow-healing ulcers

Ingestion : Poison by ingestion. May cause headache. May cause nausea and vomiting. May cause garlic smell on the breath and body.

Inhalation : Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause respiratory tract irritation. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Chronic : Adverse reproductive effects have been reported in animals. Exposure to large doses may cause central nervous system depression.

GHS:

Signal Word: Danger

## 4. First Aid measures

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

Skin : Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

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 aid immediately. Wash mouth out with water.

Inhalation : Remove from exposure and move 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.**

**Notes to Physician : Treat symptomatically and supportively.**

**5. Fire fighting measures**

**General information : As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Containers may explode when heated. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes. Runoff from fire control or dilution water may cause pollution.**

**Extinguish 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.**

**Flash Point, Autoignition Temperature, Explosion Limits, Lower, Upper: Not available.**

**NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0**

**6. Accidental Release Measures**

**General Information : Use proper personal protective equipment as indicated section 8.**

**Spills/Leaks : 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.**

**7. 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, mist, or vapor. 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.**

**8. Exposure controls, personal protection**

**Engineering controls : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.**

**Occupational exposure limits: ACGIH : 0.1mg/m3 TWA**
**NIOSH : 0.1mg/m3 TWA 25mg/m3 IDLH**
**OSHA –Final PELs 0.1mg/m3 TWA**

**Personal protective equipment: Eyes- Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin- Wear appropriate protective clothing to prevent skin exposure.**

**Clothing- Wear appropriate protective clothing to prevent skin exposure.**
**Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.**

**9. Physical and Chemical Properties**

| | | |
|---|---|---|
| **Physical state** | **:** | **Powder** |
| **Appearance** | **:** | **Grey-White** |
| **Odor** | **:** | **Odorless** |
| **pH** | **:** | **Not available** |
| **Vapor Pressure** | **:** | **1mmHg@520degC** |
| **Vapor Density** | **:** | **Not available.** |
| **Evaporation Rate** | **:** | **Not available.** |
| **Viscosity** | **:** | **Not available.** |
| **Specific Gravity/Density** | **:** | **6.11-6.27** |
| **Boiling point** | **:** | **989.8 degC** |
| **Freezing/Melting point** | **:** | **449.5 degC** |
| **Decomposition Temperature** | **:** | **Not available.** |
| **Flash point** | **:** | **Not available** |
| **Solubility** | **:** | **Insoluble** |
| **Molecular formula** | **:** | **Te** |
| **Molecular weight** | **:** | **127.60** |

**10. Stability and Reactivity**

**Chemical Stability : Stable at room temperature in closed containers under normal storage and handling conditions. Slowy tarnishes in air.**
**Conditions to Avoid : Incompatible materials, ignition sources, dust generation, excess heat.**
**Incompatibilities with Other Materials: Zinc, strong acids, strong bases, oxidizing agents, active metals, halogens.**
**Hazardous Decomposition Products: Excess heat.**
**Hazardous Polymerization: Will not occur.**

11. **Toxicological Information**

| | | |
|---|---|---|
| **RTECS#** | **:** | **No information available** |
| **CAS#** | **:** | **13494-80-9 WY2625000** |
| **LD50 LC50** | **:** | **Not available** |

| | | |
|---|---|---|
| **Carcinogenicity** | **:** | **CAS# 13494-80-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.** |
| **Epidemiology** | **:** | **Experimental reproductive effects have been reported.** |
| **Teratogenicity** | **:** | **No information available.** |
| **Reproductive Effects** | **:** | **Reproductive effects have occurred in experimental animals.** |
| **Mutagenicity** | **:** | **No information available.** |
| **Neurotoxicity** | **:** | **No information available.** |

**12. Ecological Information : No information available**

**13. Disposal Considerations**

**Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.**

**RCRA P-Series, U-Series: None listed.**

**14. Transport information**

**US DOT**

| | | |
|---|---|---|
| **Shipping name** | **:** | **Tellurium** |
| **Hazard Class** | **:** | **4.1** |
| **UN number** | **:** | **3179** |
| **Packing group** | **:** | **Ⅲ** |

**15. Regulatory Information**

**US FEDERAL**

**TSCA**

**CAS# 13494-80-9 is listed on the TSCA inventory.**

**Health & Safety Reporting List**

**None of the chemicals are on the Health & Safety Reporting List.**

**Chemical Test Rules**

**None of the chemicals in this product are under a Chemical Test Rule.**

**Section 12b**

**None of the chemicals are listed under TSCA Section 12b.**

**TSCA Significant New Use Rule**

**None of the chemicals in this material have a SNUR under TSCA.**

**CERCLA Hazardous Substances and corresponding RQs**

**None of the chemicals in this material have an RQ.**

**SARA Section 302 Extremely Hazardous Substances**

**None of the chemicals in this product have a TPQ.**

**Section 313 No chemicals are reportable under Section 313.**

**Clean Air Act:**

**This material does not contain any hazardous air pollutants.**

**This material does not contain any Class 1 Ozone depletors.**

**This material does not contain any Class 2 Ozone depletors.**

**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**

**CAS# 13494-80-9 can be found on the following state right to know lists: New Jersey, Pennsylvania, Minnesota, Massachusetts.**

**California Prop 65**

**California No Significant Risk Level: None of the chemicals in this product are 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 is listed on Canada's DSL List.

**Canada - WHMIS**

WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List**

CAS# 13494-80-9 is listed on the Canadian Ingredient Disclosure List.

## 16. Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost damages, howsoever arising, even if the company has been advised of the possibility of such damages.