



# SAFETY DATA SHEET

**MATERION**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

|  |                 |
|--|-----------------|
| Trade name or designation of the mixture | Ge-Se-Te        |
| Synonyms                                 | None.           |
| Document number                          | 1VO             |
| Materion Code                            | 1VO             |
| Issue date                               | 07-March-2017   |
| Version number                           | 02              |
| Revision date                            | 12-January-2018 |
| Supersedes date                          | 07-March-2017   |

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

|                      |                |
|----------------------|----------------|
| Identified uses      | Not available. |
| Uses advised against | None known.    |

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

|                |   |
|----------------|---|
| Company name   | Materion Advanced Chemicals Inc.  |
| Address        | 407 N. 13th Street<br>1316 W. St. Paul Avenue<br>Milwaukee, WI 53233<br>United States |
| Division       | Milwaukee   |
| Telephone      | 414.212.0257  |
| e-mail         | advancedmaterials@materion.com  |
| Contact person | Noreen Atkinson   |

### 1.4. Emergency telephone number

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Health hazards

|                      |            |                            |
|----------------------|------------|----------------------------|
| Acute toxicity, oral | Category 3 | H301 - Toxic if swallowed. |
|----------------------|------------|----------------------------|

##### Environmental hazards

|  |            |   |
|--|------------|---|
| Hazardous to the aquatic environment, long-term aquatic hazard | Category 2 | H411 - Toxic to aquatic life with long lasting effects. |
|--|------------|---|

#### Hazard summary

Toxic if swallowed. Exposure to powder or dusts may be irritating to eyes, nose and throat. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects. The material as sold in solid form is generally not considered hazardous. However, if the process involves grinding, melting, cutting or any other process that causes a release of dust or fumes, hazardous levels of airborne particulate could be generated.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Tellurium

#### Hazard pictograms



Signal word: Danger

#### Hazard statements

H301 Toxic if swallowed.  
H411 Toxic to aquatic life with long lasting effects.

## Precautionary statements

### Prevention

P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.

### Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor.  
P330 Rinse mouth.  
P391 Collect spillage.

### Storage

P405 Store locked up.

### Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## Supplemental label information

80 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. 40 % of the mixture consists of component(s) of unknown acute oral toxicity. 105 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 105 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 105 % of the mixture consists of component(s) of unknown acute dermal toxicity.  
For further information, please contact the Product Stewardship Department at +1.800.862.4118.

**2.3. Other hazards** None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

| Chemical name                            | %  | CAS-No. / EC No.        | REACH Registration No. | INDEX No.    | Notes |
|--|--|-------------------------|------------------------|--------------|-------|
| Tellurium                                | 60 - 65  | 13494-80-9<br>236-813-4 | -                      | -            |       |
| <b>Classification:</b>                   | Acute Tox. 3;H301  |                         |                        |              |       |
| Antimony                                 | 20 - 25  | 7440-36-0<br>231-146-5  | -                      | 051-003-00-9 |       |
| <b>Classification:</b>                   | Acute Tox. 4;H302, Acute Tox. 4;H332, Aquatic Chronic 2;H411 |                         |                        |              |       |
| Other components below reportable levels | 10 - 15  |                         |                        |              |       |

#### List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

#### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### 4.1. Description of first aid measures

##### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

##### Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

##### Eye contact

Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

##### Ingestion

Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

#### 4.2. Most important symptoms and effects, both acute and delayed

Headache. Dizziness. Nausea, vomiting. Diarrhoea. Dusts may irritate the respiratory tract, skin and eyes. Coughing.

**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

**General fire hazards** No unusual fire or explosion hazards noted.

**5.1. Extinguishing media**

**Suitable extinguishing media** Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed.

**5.3. Advice for firefighters**

**Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special firefighting procedures** Use water spray to cool unopened containers.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**6.4. Reference to other sections** For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

**7.2. Conditions for safe storage, including any incompatibilities** Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

**7.3. Specific end use(s)** Not available.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits****Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

| Components                 | Type | Value                 | Form                |
|----------------------------|------|-----------------------|---------------------|
| Antimony (CAS 7440-36-0)   | MAK  | 0,5 mg/m <sup>3</sup> | Inhalable fraction. |
|                            | STEL | 5 mg/m <sup>3</sup>   | Inhalable fraction. |
| Tellurium (CAS 13494-80-9) | MAK  | 0,1 mg/m <sup>3</sup> | Inhalable fraction. |
|                            | STEL | 0,5 mg/m <sup>3</sup> | Inhalable fraction. |

**Belgium. Exposure Limit Values.**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup> |

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup> |

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | MAC  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | MAC  | 0,1 mg/m <sup>3</sup> |

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

| Components               | Type | Value                 |
|--------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0) | TWA  | 0,5 mg/m <sup>3</sup> |

**Czech Republic. OELs. Government Decree 361**

| Components                 | Type    | Value                 |
|----------------------------|---------|-----------------------|
| Antimony (CAS 7440-36-0)   | Ceiling | 1,5 mg/m <sup>3</sup> |
|                            | TWA     | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | Ceiling | 0,5 mg/m <sup>3</sup> |
|                            | TWA     | 0,1 mg/m <sup>3</sup> |

**Denmark. Exposure Limit Values**

| Components                 | Type | Value                 | Form  |
|----------------------------|------|-----------------------|-------|
| Tellurium (CAS 13494-80-9) | TLV  | 0,1 mg/m <sup>3</sup> | Dust. |

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup> |

**Finland. Workplace Exposure Limits**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | STEL | 0,3 mg/m <sup>3</sup> |
|                            | TWA  | 0,1 mg/m <sup>3</sup> |

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | VME  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | VME  | 0,1 mg/m <sup>3</sup> |

**Greece. OELs (Decree No. 90/1999, as amended)**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup> |

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

| Components               | Type | Value                 |
|--------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0) | STEL | 2 mg/m <sup>3</sup>   |
|                          | TWA  | 0,5 mg/m <sup>3</sup> |

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

| Components                 | Type | Value                 | Form  |
|----------------------------|------|-----------------------|-------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> | Dust. |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup> | Dust. |

**Ireland. Occupational Exposure Limits Components**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup> |

**Italy. Occupational Exposure Limits Components**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup> |

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

| Components                 | Type | Value                  | Form  |
|----------------------------|------|------------------------|-------|
| Antimony (CAS 7440-36-0)   | STEL | 0,5 mg/m <sup>3</sup>  | Dust. |
|                            | TWA  | 0,2 mg/m <sup>3</sup>  | Dust. |
| Tellurium (CAS 13494-80-9) | TWA  | 0,01 mg/m <sup>3</sup> |       |

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements Components**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> |
| Germanium (CAS 7440-56-4)  | TWA  | 2 mg/m <sup>3</sup>   |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup> |

**Netherlands. OELs (binding)**

| Components               | Type | Value                 |
|--------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0) | TWA  | 0,5 mg/m <sup>3</sup> |

**Norway. Administrative Norms for Contaminants in the Workplace**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | TLV  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | TLV  | 0,1 mg/m <sup>3</sup> |

**Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1**

| Components                 | Type | Value                  |
|----------------------------|------|------------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup>  |
| Tellurium (CAS 13494-80-9) | STEL | 0,03 mg/m <sup>3</sup> |
|                            | TWA  | 0,01 mg/m <sup>3</sup> |

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup> |

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

| Components                 | Type | Value                  |
|----------------------------|------|------------------------|
| Antimony (CAS 7440-36-0)   | STEL | 0,5 mg/m <sup>3</sup>  |
|                            | TWA  | 0,2 mg/m <sup>3</sup>  |
| Germanium (CAS 7440-56-4)  | STEL | 5 mg/m <sup>3</sup>    |
|                            | TWA  | 2 mg/m <sup>3</sup>    |
| Tellurium (CAS 13494-80-9) | STEL | 0,15 mg/m <sup>3</sup> |
|                            | TWA  | 0,05 mg/m <sup>3</sup> |

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup> |

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

| Components                 | Type | Value                 | Form                |
|----------------------------|------|-----------------------|---------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> | Inhalable fraction. |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup> | Inhalable fraction. |

**Spain. Occupational Exposure Limits**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup> |

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

| Components                 | Type | Value                  | Form            |
|----------------------------|------|------------------------|-----------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,25 mg/m <sup>3</sup> | Inhalable dust. |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup>  | Total dust.     |

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

| Components                 | Type | Value                 | Form            |
|----------------------------|------|-----------------------|-----------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> | Inhalable dust. |
| Tellurium (CAS 13494-80-9) | STEL | 0,2 mg/m <sup>3</sup> | Inhalable dust. |
|                            | TWA  | 0,1 mg/m <sup>3</sup> | Inhalable dust. |

**UK. EH40 Workplace Exposure Limits (WELs)**

| Components                 | Type | Value                 |
|----------------------------|------|-----------------------|
| Antimony (CAS 7440-36-0)   | TWA  | 0,5 mg/m <sup>3</sup> |
| Tellurium (CAS 13494-80-9) | TWA  | 0,1 mg/m <sup>3</sup> |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**8.2. Exposure controls**

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

**Individual protection measures, such as personal protective equipment**

**General information** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Face shield is recommended. Wear safety glasses with side shields (or goggles).

**Skin protection**

**- Hand protection** Wear appropriate chemical resistant gloves.

**- Other** Wear suitable protective clothing.

**Respiratory protection** Wear respirator with dust filter.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Inform appropriate managerial or supervisory personnel of all environmental releases.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance**

**Physical state** Solid.

|   |                                  |
|---|----------------------------------|
| <b>Form</b>   | Powder.                          |
| <b>Colour</b>                                       | Not available.                   |
| <b>Odour</b>  | Not available.                   |
| <b>Odour threshold</b>                              | Not available.                   |
| <b>pH</b>   | Not available.                   |
| <b>Melting point/freezing point</b>                 | 449,8 °C (841,64 °F) estimated   |
| <b>Initial boiling point and boiling range</b>      | 989,9 °C (1813,82 °F) estimated  |
| <b>Flash point</b>                                  | Not available.                   |
| <b>Evaporation rate</b>                             | Not available.                   |
| <b>Flammability (solid, gas)</b>                    | Not available.                   |
| <b>Upper/lower flammability or explosive limits</b> |                                  |
| <b>Flammability limit - lower (%)</b>               | Not available.                   |
| <b>Flammability limit - upper (%)</b>               | Not available.                   |
| <b>Vapour pressure</b>                              | 0,00001 hPa estimated            |
| <b>Vapour density</b>                               | Not available.                   |
| <b>Relative density</b>                             | Not available.                   |
| <b>Solubility(ies)</b>                              |                                  |
| <b>Solubility (water)</b>                           | Not available.                   |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                   |
| <b>Auto-ignition temperature</b>                    | Not available.                   |
| <b>Decomposition temperature</b>                    | Not available.                   |
| <b>Viscosity</b>                                    | Not available.                   |
| <b>Explosive properties</b>                         | Not explosive.                   |
| <b>Oxidising properties</b>                         | Not oxidising.                   |
| <b>9.2. Other information</b>                       |                                  |
| <b>Density</b>                                      | 6,13 g/cm <sup>3</sup> estimated |
| <b>Specific gravity</b>                             | 6,13 estimated                   |

## SECTION 10: Stability and reactivity

|   |   |
|---|---|
| <b>10.1. Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>10.2. Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>10.3. Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>10.4. Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>10.5. Incompatible materials</b>             | Acids. Strong oxidising agents. Chlorine.   |
| <b>10.6. Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## SECTION 11: Toxicological information

|   |  |
|---|--|
| <b>General information</b>                        | Occupational exposure to the substance or mixture may cause adverse effects.   |
| <b>Information on likely routes of exposure</b>   |  |
| <b>Inhalation</b>                                 | Dust may irritate respiratory system. Prolonged inhalation may be harmful.   |
| <b>Skin contact</b>                               | Dust or powder may irritate the skin.  |
| <b>Eye contact</b>                                | Dust may irritate the eyes.  |
| <b>Ingestion</b>                                  | Toxic if swallowed.  |
| <b>Symptoms</b>                                   | Headache. Dizziness. Nausea, vomiting. Diarrhoea. Dusts may irritate the respiratory tract, skin and eyes. Coughing. |
| <b>11.1. Information on toxicological effects</b> |  |
| <b>Acute toxicity</b>                             | Toxic if swallowed.  |

| Components                 | Species | Test results |
|----------------------------|---------|--------------|
| Tellurium (CAS 13494-80-9) |         |              |
| <b>Acute</b>               |         |              |
| <b>Oral</b>                |         |              |
| LD50                       | Rat     | 83 mg/kg     |

\* Estimates for product may be based on additional component data not shown.

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>         | Due to partial or complete lack of data the classification is not possible. |
| <b>Serious eye damage/eye irritation</b> | Due to partial or complete lack of data the classification is not possible. |
| <b>Respiratory sensitisation</b>         | Due to partial or complete lack of data the classification is not possible. |
| <b>Skin sensitisation</b>                | Due to partial or complete lack of data the classification is not possible. |
| <b>Germ cell mutagenicity</b>            | Due to partial or complete lack of data the classification is not possible. |
| <b>Carcinogenicity</b>                   | Due to partial or complete lack of data the classification is not possible. |

**Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)**

Not listed.

|   |   |
|---|---|
| <b>Reproductive toxicity</b>                              | Due to partial or complete lack of data the classification is not possible. |
| <b>Specific target organ toxicity - single exposure</b>   | Due to partial or complete lack of data the classification is not possible. |
| <b>Specific target organ toxicity - repeated exposure</b> | Due to partial or complete lack of data the classification is not possible. |
| <b>Aspiration hazard</b>                                  | Due to partial or complete lack of data the classification is not possible. |
| <b>Mixture versus substance information</b>               | No information available.   |
| <b>Other information</b>                                  | Not available.  |

## SECTION 12: Ecological information

**12.1. Toxicity** Toxic to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

| Components               | Species  | Test results             |
|--------------------------|--|--------------------------|
| Antimony (CAS 7440-36-0) |  |                          |
| <b>Aquatic</b>           |  |                          |
| Fish                     | LC50 Sheepshead minnow (Cyprinodon variegatus) | 6,2 - 8,3 mg/l, 96 hours |

\* Estimates for product may be based on additional component data not shown.

|  |   |
|--|---|
| <b>12.2. Persistence and degradability</b>             | No data is available on the degradability of this product.  |
| <b>12.3. Bioaccumulative potential</b>                 | No data available.  |
| <b>Partition coefficient n-octanol/water (log Kow)</b> | Not available.  |
| <b>Bioconcentration factor (BCF)</b>                   | Not available.  |
| <b>12.4. Mobility in soil</b>                          | No data available.  |
| <b>12.5. Results of PBT and vPvB assessment</b>        | Not available.  |
| <b>12.6. Other adverse effects</b>                     | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

### 12.7. Additional information

**Estonia Dangerous substances in soil Data**

|                          |                         |
|--------------------------|-------------------------|
| Antimony (CAS 7440-36-0) | Antimony (Sb) 10 mg/kg  |
|                          | Antimony (Sb) 100 mg/kg |
|                          | Antimony (Sb) 20 mg/kg  |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods



|                                     |  |
|-------------------------------------|--|
| <b>Residual waste</b>               | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).   |
| <b>Contaminated packaging</b>       | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.   |
| <b>EU waste code</b>                | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Disposal methods/information</b> | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Special precautions</b>          | Dispose in accordance with all applicable regulations.   |

## SECTION 14: Transport information

### ADR

|   |   |
|---|---|
| <b>14.1. UN number</b>                    | UN3288  |
| <b>14.2. UN proper shipping name</b>      | Toxic solid, inorganic, n.o.s. (Tellurium)                              |
| <b>14.3. Transport hazard class(es)</b>   |   |
| <b>Class</b>                              | 6.1(PGIII)  |
| <b>Subsidiary risk</b>                    | -   |
| <b>Label(s)</b>                           | 6.1   |
| <b>Hazard No. (ADR)</b>                   | 60  |
| <b>Tunnel restriction code</b>            | Not available.  |
| <b>14.4. Packing group</b>                | III   |
| <b>14.5. Environmental hazards</b>        | Yes   |
| <b>14.6. Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |

### RID

|   |   |
|---|---|
| <b>14.1. UN number</b>                    | UN3288  |
| <b>14.2. UN proper shipping name</b>      | Toxic solid, inorganic, n.o.s. (Tellurium)                              |
| <b>14.3. Transport hazard class(es)</b>   |   |
| <b>Class</b>                              | 6.1(PGIII)  |
| <b>Subsidiary risk</b>                    | -   |
| <b>Label(s)</b>                           | 6.1   |
| <b>14.4. Packing group</b>                | III   |
| <b>14.5. Environmental hazards</b>        | Yes   |
| <b>14.6. Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |

### ADN

|   |   |
|---|---|
| <b>14.1. UN number</b>                    | UN3288  |
| <b>14.2. UN proper shipping name</b>      | Toxic Solid, N.o.s. (Tellurium)   |
| <b>14.3. Transport hazard class(es)</b>   |   |
| <b>Class</b>                              | 6.1(PGIII)  |
| <b>Subsidiary risk</b>                    | -   |
| <b>Label(s)</b>                           | 6.1   |
| <b>14.4. Packing group</b>                | III   |
| <b>14.5. Environmental hazards</b>        | Yes   |
| <b>14.6. Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |

### IATA

|   |  |
|---|--|
| <b>14.1. UN number</b>                  | UN3288                                     |
| <b>14.2. UN proper shipping name</b>    | Toxic solid, inorganic, n.o.s. (Tellurium) |
| <b>14.3. Transport hazard class(es)</b> |  |
| <b>Class</b>                            | 6.1(PGIII)                                 |
| <b>Subsidiary risk</b>                  | -  |
| <b>14.4. Packing group</b>              | III  |

|   |   |
|---|---|
| <b>14.5. Environmental hazards</b>        | Yes   |
| <b>ERG Code</b>                           | 6L  |
| <b>14.6. Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Other information</b>                  |   |
| <b>Passenger and cargo aircraft</b>       | Allowed with restrictions.  |
| <b>Cargo aircraft only</b>                | Allowed with restrictions.  |

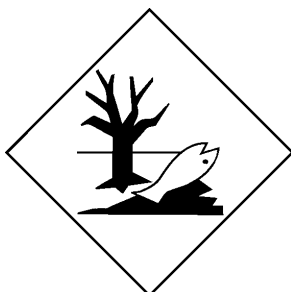
#### IMDG

|   |   |
|---|---|
| <b>14.1. UN number</b>                    | UN3288  |
| <b>14.2. UN proper shipping name</b>      | TOXIC SOLID, INORGANIC, N.O.S. (Tellurium), MARINE POLLUTANT            |
| <b>14.3. Transport hazard class(es)</b>   |   |
| <b>Class</b>                              | 6.1(PGIII)  |
| <b>Subsidiary risk</b>                    | -   |
| <b>14.4. Packing group</b>                | III   |
| <b>14.5. Environmental hazards</b>        |   |
| <b>Marine pollutant</b>                   | Yes   |
| <b>EmS</b>                                | F-A, S-A  |
| <b>14.6. Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling. |

#### ADN; ADR; IATA; IMDG; RID



#### Marine pollutant



**General information** IMDG Regulated Marine Pollutant.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### **Authorisations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### **Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

#### **Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Not listed.

#### **Other regulations**

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### **National regulations**

Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

#### **15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

#### **List of abbreviations**

Not available.

#### **Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### **Disclaimer**

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