# Material Safety Data Sheet

| Section 1: Product and Company Identification | | | |
|---|---|---|---|
| **Product Name** | Potassium Tellurite Trihydrate | | |
| **Catalogue Number:** | ASC-1006 | **CAS Number:** | 7790-58-1 |
| **E-mail:** | Sales@ausamics.com | **Website**: | Ausamics.com |

| Section 2: Hazards Identification | |
|---|---|
| **Classification:** This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) | |
| Acute oral toxicity | Category 3 |
| **Label Elements** | |
| **Signal Word** | Danger  |
| **Hazard Statements** | Toxic if swallowed |
| **Precautionary Statements Prevention** | Wash face, hands, and any exposed skin thoroughly after handling.<br>Do not eat, drink, or smoke when using this product |
| **Ingestion** | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth |
| **Storage** | Store locked up |
| **Disposal** | Dispose of contents/container to an approved waste disposal plant |
| **Hazards not otherwise classified (HNOC)** | None identified |

| Section 3: Composition / Information on Ingredients | | |
|---|---|---|
| **Component** | **CAS No** | **Weight %** |
| Potassium tellurite hydrate | 123333-66-4 | 90 |
| Telluric acid (H2TeO3), dipotassium salt | 7790-58-1 | - |

| Section 4: First Aid Measures | |
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| **General Advice** | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. |

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| **Eye Contact** | In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| **Skin Contact** | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required. |
| **Inhalation** | Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. |
| **Ingestion** | Do NOT induce vomiting. Call a physician or poison control center immediately. |
| **Most important symptoms and effects** | None reasonably foreseeable. |
| **Notes to Physician** | Treat symptomatically |

| **Section 5: Firefighting Measures** | |
|---|---|
| **Unsuitable Extinguishing Media** | No information available |
| **Flash Point** | No information available |
| **Autoignition Temperature** | No data available |
| **Explosion Limits**<br>**Upper**<br>**Lower**<br>**Sensitivity to Mechanical Impact**<br>**Sensitivity to Static Discharge** | <br>No data available<br>No data available<br>No information available<br>No information available |
| **Specific Hazards Arising from the Chemical** | Keep product and empty container away from heat and sources of ignition. |
| **Hazardous Combustion Products** | Heavy metal oxides. Potassium oxides. |
| **Protective Equipment and Precautions for Firefighters** | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors. |

**NFPA**

| Health | Flammability | Instability | Physical hazards |
|---|---|---|---|
| 3 | 1 | 0 | N/A |

| **Section 6: Accidental Release Measures** | |
|---|---|
| **Personal Precautions** | Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. |
| **Environmental Precautions** | Should not be released into the environment. See Section 12 for additional Ecological Information. Do not allow material |

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| | to contaminate the ground water system. Do not flush into surface water or sanitary sewer system. |
| **Methods for Containment and Clean Up** | Sweep up and shovel into suitable containers for disposal. Avoid dust formation. |

| **Section 7: Handling and storage** | |
|---|---|
| **Handling** | Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed, then seek immediate medical assistance. |
| **Storage** | Keep containers tightly closed in a dry, cool and well-ventilated place. |

**Section 8: Exposure Controls / Personal Protection**

**Exposure Guidelines**

| Component | ACGIH TLV | OSHA PEL | NIOSH IDLH | Mexico OEL (TWA) |
|---|---|---|---|---|
| Telluric acid (H2TeO3), dipotassium salt | TWA: 0.1 mg/m3 | (Vacated) TWA: 0.1 mg/m3 | IDLH: 25 mg/m3<br>TWA: 0.1 mg/m3 | TWA: 0.1 mg/m3 |

**Legend**
**ACGIH** - *American Conference of Governmental Industrial Hygienists*
**OSHA** - *Occupational Safety and Health Administration*
**NIOSH IDLH:** *NIOSH - National Institute for Occupational Safety and Health*

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| **Engineering Measures** | Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. |
| **Personal Protective Equipment** | |
| **Eye/face Protection** | 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 and body protection** | Wear appropriate protective gloves and clothing to prevent skin exposure. |
| **Respiratory Protection** | 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 respirators if exposure limits are exceeded or if irritation or other symptoms are experienced. |
| **Hygiene Measures** | Handle in accordance with good industrial hygiene and safety practice. |

| **Section 9: Physical and Chemical Properties** | |
|---|---|
| **Physical State** | Solid |
| **Appearance** | No information available |
| **Odor** | No information available |

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|---|---|
| **Odor Threshold** | No information available |
| **pH** | No information available |
| **Melting Point/Range** | 460 - 470 °C / 860 - 878 °F |
| **Boiling Point/Range** | No information available |
| **Flash Point** | No information available |
| **Evaporation Rate** | Not applicable |
| **Flammability (solid, gas)** | No information available |
| **Flammability or explosive limits**<br>**Upper**<br>**Lower** | <br>No data available<br>No data available |
| **Vapor Pressure** | No information available |
| **Vapor Density** | Not applicable |
| **Specific Gravity** | No information available |
| **Solubility** | No information available |
| **Partition coefficient; n-octanol/water** | No data available |
| **Decomposition Temperature** | No information available |
| **Viscosity** | Not applicable |
| **Molecular Formula** | $K_2TeO_3.xH_2O$ |
| **Molecular Weight** | 253.79 |

| **Section 10: stability and Reactivity** | |
|---|---|
| **Reactive Hazard** | None known, based on information available |
| **Stability** | Stable under normal conditions. |
| **Conditions to Avoid** | Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water. |
| **Incompatible Materials** | Strong oxidizing agents |
| **Hazardous Decomposition Products** | Heavy metal oxides, Potassium oxides |
| **Hazardous Polymerization** | Hazardous polymerization does not occur. |
| **Hazardous Reactions** | None under normal processing. |

| Section 11: Toxicological Information | | | | | | |
|---|---|---|---|---|---|---|
| **Acute Toxicity**<br>**Product Information**<br>**Component Information**<br>**Toxicologically Synergistic Products** | | No information available | | | | |
| **Delayed and immediate effects as well as chronic effects from short and long-term exposure** | | | | | | |
| **Irritation** | | No information available | | | | |
| **Sensitization** | | No information available | | | | |
| **Carcinogenicity** | | The table below indicates whether each agency has listed any ingredient as a carcinogen. | | | | |
| **Component** | **CAS No** | **IARC** | **NTP** | **ACGIH** | **OSHA** | **Mexico** |
| Potassium tellurite hydrate | 123333-66-4 | Not listed | Not listed | Not listed | Not listed | Not listed |
| Telluric acid (H2TeO3), dipotassium salt | 7790-58-1 | Not listed | Not listed | Not listed | Not listed | Not listed |
| **Mutagenic Effects** | | No information available | | | | |
| **Reproductive Effects** | | No information available | | | | |
| **Developmental Effects** | | No information available | | | | |
| **Teratogenicity** | | No information available | | | | |
| **STOT - single exposure** | | None known | | | | |
| **STOT - repeated exposure** | | None known | | | | |
| **Aspiration hazard** | | No information available | | | | |
| **Symptoms / effects, both acute and delayed** | | No information available | | | | |
| **Endocrine Disruptor Information** | | No information available | | | | |
| **Other Adverse Effects** | | The toxicological properties have not been fully investigated. | | | | |

| Section 12: Ecological Information | |
|---|---|
| **Ecotoxicity** | Do not empty into drains. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system. |
| **Persistence and Degradability** | based on information available. May persist |
| **Bioaccumulation/ Accumulation** | No information available. |
| **Mobility** | Will likely be mobile in the environment due to its water solubility. |

| Section 13: Disposal Consideration | |
|---|---|
| **Waste Disposal Methods** | Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. |

| Section 14: Transport Information | |
|---|---|
| **DOT**<br>**UN-No**<br>**Proper Shipping Name**<br>**Hazard Class**<br>**Packing Group** | <br>UN3284<br>Tellurium compound, n.o.s.<br>6.1<br>III |
| **TDG**<br>**UN-No**<br>**Proper Shipping Name**<br>**Hazard Class**<br>**Packing Group** | <br>UN3284<br>Tellurium compound, n.o.s.<br>6.1<br>III |
| **IATA**<br>**UN-No**<br>**Proper Shipping Name**<br>**Hazard Class**<br>**Packing Group** | <br>UN3284<br>Tellurium compound, n.o.s.<br>6.1<br>III |
| **IMDG/IMO**<br>**UN-No**<br>**Proper Shipping Name**<br>**Hazard Class**<br>**Packing Group** | <br>UN3284<br>Tellurium compound, n.o.s.<br>6.1<br>III |

**Section 15: Regulatory Information**

**United States of America Inventory**

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|---|---|---|---|---|
| Potassium tellurite hydrate | 123333-66-4 | - | - | - |
| Telluric acid (H2TeO3), dipotassium salt | 7790-58-1 | X | ACTIVE | - |

**Legend:**
**TSCA** - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed

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|---|---|
| **TSCA 12(b)** - Notices of Export | Not applicable |

**International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

| Component | CAS No | DSL | NDSL | EINECS | PICCS | ENCS | AICS | IECSC | KECL |
|---|---|---|---|---|---|---|---|---|---|
| Potassium tellurite hydrate | 123333-66-4 | - | - | - | - | - | - | - | - |
| Telluric acid (H2TeO3), dipotassium salt | 7790-58-1 | - | X | 232-213-1 | X | - | X | X | KE-12208 |

| | |
|---|---|
| **U.S. Federal Regulations** | |
| **SARA 313** | Not applicable |
| **SARA 311/312 Hazard Categories** | See section 2 for more information |
| **CWA (Clean Water Act)** | Not applicable |
| **Clean Air Act** | Not applicable |
| **OSHA** - Occupational Safety and Health Administration | Not applicable |
| **CERCLA** | Not applicable |
| **California Proposition 65** | This product does not contain any Proposition 65 chemicals. |

**U.S. State Right-to-Know Regulations**

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|---|---|---|---|---|---|
| Telluric acid (H2TeO3), dipotassium salt | - | - | - | - | **X** |

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|---|---|
| **U.S. Department of Transportation** | |
| Reportable Quantity (RQ) | N |
| DOT Marine Pollutant | N |
| DOT Severe Marine Pollutant | N |
| **U.S. Department of Homeland Security** | This product does not contain any DHS chemicals. |

| **Section 16: Additional Notes** | |
|---|---|
| **Documented By** | Ausamics Life Science<br>Sales@Ausamics.com |
| **Revision date** | June 03, 2023 |

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| **Summary of Revisions** | This document has been revised to meet the requirements of the US OSHA HazCom 2012 Standard, which supersedes the existing regulations outlined in 29 CFR 1910.1200, in order to align with the internationally recognized globally Harmonized System of Classification and Labeling of chemicals (GHS). |
| **Disclaimer** | The information presented in this Safety Data sheet is accurate to the best of our knowledge, information, and belief at the time of publication. It is intended as a guide for the safe handling, use, processing, storage, transportation, disposal, and release of specific materials. However, it should be interpreted as a warranty or quality specification. The provided information pertains solely to the designated material and may not be applicable to its use in combination with other materials or in any process, unless explicitly stated in the text. |