Material Safety Data Sheet

Potassium tellurite

sc-296131

Hazard Alert Code
Key:

EXTREME    HIGH    MODERATE    LOW

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
Potassium tellurite

STATEMENT OF HAZARDOUS NATURE

NFPA

SUPPLIER
Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, California 95060
800.457.3801 or 831.457.3800

EMERGENCY
ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255
(1-800-CHEMCALL) or call +613 9573 3112

SYNONYMS
K2-O3-Te, K2TeO3, "telluric acid dipotassium salt"

Section 2 - HAZARDS IDENTIFICATION

CHEMWATCH HAZARD RATINGS

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Toxicity</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Body Contact</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
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</tr>
<tr>
<td>Chronic</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

CANADIAN WHMIS SYMBOLS

Min/Nil=0
Low=1
Moderate=2
High=3
Extreme=4
EMERGENCY OVERVIEW

RISK
Toxic if swallowed. Irritating to eyes, respiratory system and skin.

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED
- Toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 40 gram may be fatal or may produce serious damage to the health of the individual.
- Acute potassium poisoning after swallowing is rare, because vomiting usually occurs and renal excretion is fast. Potassium causes a slow, weak pulse, irregularities in heart rhythm, heart block and an eventual fall in blood pressure.

EYE
- This material can cause eye irritation and damage in some persons.

SKIN
- This material can cause inflammation of the skin on contact in some persons.
- The material may accentuate any pre-existing dermatitis condition.
- Open cuts, abraded or irritated skin should not be exposed to this material.
- Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

INHALED
- The material can cause respiratory irritation in some persons.
The body's response to such irritation can cause further lung damage.
- Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual.
- Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.
If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.
- A symptom of exposure to tellurium fumes or dust is a garlic-like odour in the breath or sweat. This may persist for days after exposure.

CHRONIC HEALTH EFFECTS
- Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems.
Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis; caused by particles less than 0.5 micron penetrating and remaining in the lung. Prime symptom is breathlessness; lung shadows show on X-ray.
- Persons exposed to tellurium for long periods of time show mild digestive upset, a characteristic garlic odour, dry mouth, a constant metallic taste and sleepiness. Present exposure standards are many times greater than the concentrations which cause garlic odour in the breath. Tellurium can cause birth defects including water on the brain.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>NAME</th>
<th>CAS RN</th>
<th>%</th>
</tr>
</thead>
</table>

2 of 10
Section 4 - FIRST AID MEASURES

SWALLOWED
- IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.
- For advice, contact a Poisons Information Centre or a doctor.
- Urgent hospital treatment is likely to be needed.
- In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient’s condition.

EYE
If this product comes in contact with the eyes
- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
- Transport to hospital or doctor without delay.

SKIN
If skin contact occurs
- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

INHALED
- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.

NOTES TO PHYSICIAN
- BAL appears to be contraindicated for tellurium poisonings as when given before tellurium, in test animals, it appears to intensify the effect. Ascorbate has had only equivocal effects in acutely poisoned animals. [GOSELIN & HODGE Clinical Toxicology of Commercial Products].
- For potassium intoxications
  - Hyperkalaemia, in patients with abnormal renal function, results from reduced renal excretion following intoxication.
  - The presence of electrocardiographic evidence of hyperkalemia or serum potassium levels exceeding 7.5 mE/L indicates a medical emergency requiring an intravenous line and constant cardiac monitoring.
  - The intravenous ingestion of 5-10 ml of 10% calcium gluconate, in adults, over a 2 minute period antagonises the cardiac and neuromuscular effects. The duration of action is approximately 1 hour. [Ellenhorn and Barceloux Medical Toxicology]

Section 5 - FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Property</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Vapour Pressure (mmHG)</td>
<td>Negligible</td>
</tr>
<tr>
<td>Upper Explosive Limit (%)</td>
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<tr>
<td>Specific Gravity (water=1)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Lower Explosive Limit (%)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

EXTINGUISHING MEDIA
- Water spray or fog.
- Foam.
• Dry chemical powder.
• BCF (where regulations permit).

FIRE FIGHTING
• Alert Fire Brigade and tell them location and nature of hazard.
• Wear full body protective clothing with breathing apparatus.
• Prevent, by any means available, spillage from entering drains or water course.
• Use fire fighting procedures suitable for surrounding area.
When any large container (including road and rail tankers) is involved in a fire, consider evacuation by 800 metres in all directions.

GENERAL FIRE HAZARDS/HAZARDOUS COMBUSTIBLE PRODUCTS
• Non combustible.
• Not considered a significant fire risk, however containers may burn.
Decomposition may produce toxic fumes of metal oxides.
May emit poisonous fumes.

FIRE INCOMPATIBILITY
None known.

Section 6 - ACCIDENTAL RELEASE MEASURES

MINOR SPILLS
• Remove all ignition sources.
• Clean up all spills immediately.
• Avoid contact with skin and eyes.
• Control personal contact by using protective equipment.

MAJOR SPILLS
• Clear area of personnel and move upwind.
• Alert Fire Brigade and tell them location and nature of hazard.
• Wear full body protective clothing with breathing apparatus.
• Prevent, by any means available, spillage from entering drains or water course.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING
• Avoid all personal contact, including inhalation.
• Wear protective clothing when risk of exposure occurs.
• Use in a well-ventilated area.
• Prevent concentration in hollows and sumps.

RECOMMENDED STORAGE METHODS
• Glass container is suitable for laboratory quantities
• Lined metal can, lined metal pail/ can.
• Plastic pail.
• Polyliner drum.
• Packing as recommended by manufacturer.
For low viscosity materials
• Drums and jerricans must be of the non-removable head type.
• Where a can is to be used as an inner package, the can must have a screwed enclosure.

STORAGE REQUIREMENTS
• Store in original containers.
• Keep containers securely sealed.
• Store in a cool, dry, well-ventilated area.
• Store away from incompatible materials and foodstuff containers.
### EXPOSURE CONTROLS

<table>
<thead>
<tr>
<th>Source</th>
<th>Material</th>
<th>TWA ppm</th>
<th>TWA mg/m³</th>
<th>STEL ppm</th>
<th>STEL mg/m³</th>
<th>Peak ppm</th>
<th>Peak mg/m³</th>
<th>TWA F/CC</th>
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<td>US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants</td>
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<td>US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants</td>
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<td>0.3</td>
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<td>TLV Basis halitosis. TLV excludes hydrogen telluride.</td>
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<tr>
<td>Canada - Prince Edward Island</td>
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<tr>
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<td>0.1</td>
<td>0.3</td>
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<td></td>
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</tbody>
</table>

**PERSONAL PROTECTION**

**RESPIRATOR**

- Particulate. (AS/NZS 1716 & 1715, EN 1432000 & 1492001, ANSI Z88 or national equivalent)

**EYE**

- Safety glasses with side shields.
- Chemical goggles.
Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

HANDS/FEET
- Wear chemical protective gloves, eg. PVC.
- Wear safety footwear or safety gumboots, eg. Rubber

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include
- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity

OTHER
- Overalls.
- Eyewash unit.
- Barrier cream.
- Skin cleansing cream.

ENGINEERING CONTROLS
Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are
Process controls which involve changing the way a job activity or process is done to reduce the risk.
Enclosure and/or isolation of emission source which keeps a selected hazard “physically” away from the worker and ventilation that strategically “adds” and “removes” air in the work environment.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

#### PHYSICAL PROPERTIES
Solid.
Mixes with water.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>State</td>
<td>Divided solid</td>
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<tr>
<td>Molecular Weight</td>
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</tr>
<tr>
<td>Melting Range (°F)</td>
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<td>Viscosity</td>
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<tr>
<td>Boiling Range (°F)</td>
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<td>Solubility in water (g/L)</td>
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<td>Flash Point (°F)</td>
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<tr>
<td>pH (1% solution)</td>
<td>&gt; 7</td>
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<tr>
<td>Decomposition Temp (°F)</td>
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<tr>
<td>pH (as supplied)</td>
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</tr>
<tr>
<td>Autoignition Temp (°F)</td>
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<tr>
<td>Vapour Pressure (mmHG)</td>
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<tr>
<td>Upper Explosive Limit (%)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity (water=1)</td>
<td>Not available</td>
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<tr>
<td>Lower Explosive Limit (%)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative Vapour Density (air=1)</td>
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<td>Volatile Component (%vol)</td>
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<tr>
<td>Evaporation Rate</td>
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</table>

#### APPEARANCE
Deliquescent crystals. Soluble in water forming alkaline solution.

### Section 10 - CHEMICAL STABILITY

#### CONDITIONS CONTRIBUTING TO INSTABILITY
- Presence of incompatible materials.
• Product is considered stable.
• Hazardous polymerisation will not occur.

**STORAGE INCOMPATIBILITY**
• Contact with acids produces toxic fumes
• Metals and their oxides or salts may react violently with chlorine trifluoride and bromine trifluoride.
• These trifluorides are hypergolic oxidisers. They ignite on contact (without external source of heat or ignition) with recognised fuels - contact with these materials, following an ambient or slightly elevated temperature, is often violent and may produce ignition.
• The state of subdivision may affect the results.

For incompatible materials - refer to Section 7 - Handling and Storage.

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**Section 11 - TOXICOLOGICAL INFORMATION**

potassium tellurite

**TOXICITY AND IRRITATION**

**POTASSIUM TELLURITE**

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound.

**CARCINOGEN**

|_potassium tellurite| US - Rhode Island Hazardous Substance List | IARC |

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**Section 12 - ECOLOGICAL INFORMATION**

This material and its container must be disposed of as hazardous waste.

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**Section 13 - DISPOSAL CONSIDERATIONS**

**Disposal Instructions**

All waste must be handled in accordance with local, state and federal regulations.
• Containers may still present a chemical hazard/ danger when empty.
• Return to supplier for reuse/ recycling if possible.

Otherwise:
• If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
• Where possible retain label warnings and MSDS and observe all notices pertaining to the product. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:
• Reduction
• Reuse
• Recycling
• Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. In most instances the supplier of the material should be consulted.
• DO NOT allow wash water from cleaning or process equipment to enter drains.
• It may be necessary to collect all wash water for treatment before disposal.
• In all cases disposal to sewer may be subject to local laws and regulations and these should be considered...
first.

- Where in doubt contact the responsible authority.
- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

### Section 14 - TRANSPORTATION INFORMATION

**DOT:**

<table>
<thead>
<tr>
<th>Symbols:</th>
<th>None</th>
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<tbody>
<tr>
<td>Identification Numbers:</td>
<td>UN3284</td>
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<tr>
<td>Label Codes:</td>
<td>6.1</td>
</tr>
<tr>
<td>Packaging: Exceptions:</td>
<td>153</td>
</tr>
<tr>
<td>Quantity Limitations: Cargo aircraft only:</td>
<td>200 kg</td>
</tr>
<tr>
<td>Vessel stowage: Other:</td>
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</tr>
</tbody>
</table>

**Hazard class or Division:** 6.1

**PG:** III

**Special provisions:** IB8, IP3, T1, TP33

**Packaging: Non-bulk:** 213

**Quantity limitations:** 100 kg

**Vessel stowage: Location:** A

**Identification Numbers:**

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<th>UN</th>
<th>PG</th>
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<tbody>
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<td>3284</td>
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**Packaging:**

<table>
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<th>153</th>
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**Packaging Instructions:**

<table>
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<th>Cargo Only</th>
<th>Maximum Qty/Pack:</th>
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<td>677</td>
<td>200 kg</td>
</tr>
<tr>
<td>Passenger and Cargo</td>
<td>Passenger and Cargo</td>
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<tr>
<td>670</td>
<td>100 kg</td>
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<tr>
<td>Limited Quantity</td>
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<tr>
<td>Packing Instructions:</td>
<td>Maximum Qty/Pack:</td>
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<tr>
<td>Y645</td>
<td>10 kg</td>
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**ICAO/IATA Class:** 6.1

**UN/ID Number:** 3284

**Packing Group:** III

**Special provisions:** A3

**Cargo Only**

**Passenger and Cargo**

**Passenger and Cargo Limited Quantity**

**Shipping Name:** TELLURIUM COMPOUND, N.O.S. *(CONTAINS POTASSIUM TELLURITE)*

**Air Transport IATA:**

<table>
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<tr>
<th>Class:</th>
<th>ICAO/IATA Subrisk:</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1</td>
<td>None</td>
</tr>
</tbody>
</table>

**UN/ID Number:** 3284

<table>
<thead>
<tr>
<th>Packing Group:</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
</tr>
</tbody>
</table>

**Special provisions:** A3

**Cargo Only**

**Passenger and Cargo**

**Passenger and Cargo Limited Quantity**

**Shipping Name:** TELLURIUM COMPOUND, N.O.S. *(CONTAINS POTASSIUM TELLURITE)*

**Maritime Transport IMDG:**

<table>
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<tr>
<th>Class:</th>
<th>IMDG Subrisk:</th>
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<tbody>
<tr>
<td>6.1</td>
<td>None</td>
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</tbody>
</table>

**UN Number:** 3284

<table>
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<tr>
<th>Packing Group:</th>
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<tbody>
<tr>
<td>III</td>
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**EMS Number:** F-A,S-A

<table>
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<tr>
<th>Special provisions:</th>
</tr>
</thead>
<tbody>
<tr>
<td>223 274</td>
</tr>
</tbody>
</table>

**Limited Quantities:** 5 kg

**Shipping Name:** TELLURIUM COMPOUND, N.O.S. *(contains potassium tellurite)*

### Section 15 - REGULATORY INFORMATION

*potassium tellurite (CAS: 7790-58-1,123333-66-4) is found on the following regulatory lists;*

*"Canada Non-Domestic Substances List (NDSL)",*"Canada Toxicological Index Service - Workplace Hazardous Materials Information System - WHMIS (English)",*"US DOE Temporary Emergency Exposure Limits (TEELs)",*"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"*
LIMITED EVIDENCE
■ Inhalation may produce health damage*.
■ Cumulative effects may result following exposure*.
  * (limited evidence).

Ingredients with multiple CAS Nos
<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS</th>
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<tbody>
<tr>
<td>potassium tellurite</td>
<td>7790-58-1, 123333-66-4</td>
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■ Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references. A list of reference resources used to assist the committee may be found at: www.chemwatch.net/references.

■ The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

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