SECTION 1  PRODUCT AND COMPANY INFORMATION

PRODUCT NAME:  Zinc Telluride  
PRODUCT NUMBER:  3895  
CAS NUMBER:  1315-11-3  
MANUFACTURER:  Prochem, Inc.

826 Roosevelt Road  
Rockford, IL  61109

PHONE:  815-398-1788  
FAX:  815-398-1810  
TOLL FREE:  800-795-6788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEMTREC:  1-800-424-9300

SECTION 2  HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram

Signal Word  Warning

Hazard Statements

H302  Harmful if swallowed.
H332  Harmful if inhaled.

Precautionary Phrases

P261  Avoid breathing dust/fume/gas/mist/vapors/spray.
P264  Wash thoroughly after handling.
P270  Do not eat, drink, or smoke when using this product.
P304+P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P330  Rinse mouth.
P501  Dispose of contents/container to an approved waste disposal plant.

HMIS CLASSIFICATION:
Health: 2  Fire: 0  Reactivity Hazard: 1

NFPA RATING:
Health: 2  Flammability: 0  Reactivity Hazard: 1

EYE CONTACT:  May cause mild to moderate irritation of the eyes.
SKIN CONTACT:  The dust may cause mild irritation of the skin.
INHALATION:  Inhalation of dust may cause garlic odor of breath, metallic taste, sleepiness, headache, and nausea.
INGESTION:  Ingestion of only moderate amounts of tellurium containing dust may cause drowsiness and loss of appetite.
SECTION 3  COMPOSITION / INFORMATION ON INGREDIENTS

Formula: ZnTe
Molecular Weight: 192.97

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS#</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Telluride</td>
<td>1315-11-3</td>
<td>100</td>
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</table>

SECTION 4  FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Get immediate competent medical attention if irritation persists.

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep patient warm. Get medical treatment as soon as possible.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5  FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable
AUTO IGNITION TEMPERATURE: Not available
EXPLOSION LIMITS: Not available
EXTINGUISHING MEDIUM: Use fire fighting measures that suit the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Tellurium dioxide, Hydrogen telluride, zinc oxide

SECTION 6  ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment including an approved respirator. Ensure adequate ventilation. Keep unprotected persons away.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Without creating dust, mix pill with diatomaceous earth, sand, vermiculite and place in suitable container for proper disposal.

SECTION 7  HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Use with adequate ventilation. Keep container tightly closed.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Do not store together with acids. Store away from oxidizing agents.

SECTION 8  EXPOSURE CONTROLS AND PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Component</th>
<th>Exposure Limits</th>
<th>Basis</th>
<th>Entity</th>
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<tbody>
<tr>
<td>Zinc Telluride</td>
<td>0.1 mg/m³</td>
<td>TLV</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>0.1 mg/m³</td>
<td>PEL</td>
<td>OSHA</td>
</tr>
<tr>
<td></td>
<td>0.1 mg/m³</td>
<td>REL</td>
<td>NIOSH</td>
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</tbody>
</table>

TLV: Threshold Limit Value over 8 hours of work.
REL: Recommended Exposure Limit
PEL: Permissible Exposure Limit

EYE PROTECTION: Wear chemical safety glasses or goggles and a face shield
SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit for chemical protection.
VENTILATION: Provide local exhaust, preferably mechanical.
RESPIRATOR: Use an approved respirator
SECTION 9   PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Dark red or gray solid
MOLECULAR WEIGHT: 192.97
BOILING POINT: Not available
MELTING POINT: 1240°C
SPECIFIC GRAVITY: 6.34 gm/ml
VAPOR DENSITY: No data available
SOLUBILITY: Insoluble

SECTION 10    STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Mixing fine dust with the air near a source of ignition. Reacts with strong oxidizing agents.
INCOMPATIBILITY: Strong oxidizing agents and acids
DECOMPOSITION PRODUCTS: Tellurium oxides, hydrogen telluride, and zinc oxides.

SECTION 11   TOXICOLOGICAL DATA

ACUTE TOXICITY: Not available
CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.
MUTAGENIC EFFECTS: Not available
TETRATOGENIC EFFECTS: Not available

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12    ECOLOGICAL DATA

No data available.

SECTION 13    DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14    TRANSPORTATION DATA

Not a dangerous good.

SECTION 15    REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory
SARA 302/304: Not Listed
SARA 311/312: Acute Health Hazard.
SARA (TITLE 313): Zinc Telluride
CALIFORNIA PROP. 65: Not Listed
WHMIS CANADA: Not Listed

SECTION 16    OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.
DATE PREPARED: 10/14