SAFETY DATA SHEET: POTASSIUM DICHROMATE TS

1. IDENTIFICATION

Product Name: POTASSIUM DICHROMATE TS
Synonyms: 
Formula and Formula Weight: Mixture NA
Integra numbers beginning with: P722.7U
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification:

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Hazard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity - Oral</td>
<td>2 Fatal if swallowed.</td>
</tr>
<tr>
<td>Acute Toxicity - Dermal</td>
<td>1 Fatal in contact with skin.</td>
</tr>
<tr>
<td>Acute Toxicity - Inhalation</td>
<td>1 Fatal if inhaled.</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>1B Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>Eye Damage/Irritation</td>
<td>1 Causes serious eye damage.</td>
</tr>
<tr>
<td>Sensitization - Respiratory</td>
<td>1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
<tr>
<td>Sensitization - Skin</td>
<td>1A May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>1B May cause genetic defects.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>1A May cause cancer.</td>
</tr>
<tr>
<td>Toxic to Reproduction</td>
<td>1B May damage fertility or the unborn child.</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (single exposure)</td>
<td>3 May cause respiratory irritation.</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (repeated exposure)</td>
<td>1 Causes damage to organs through prolonged or repeated exposure if inhaled.</td>
</tr>
<tr>
<td>Oxidizing Solids</td>
<td>2 May intensify fire; oxidizer.</td>
</tr>
</tbody>
</table>

Signal Word: Danger

Precautionary Statements

Prevention:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat.
Keep and store away from clothing, combustible materials.
Take any precaution to avoid mixing with combustibles
Do not breathe dust, fume, gas, mist, vapors, spray.
Do not get in eyes, on skin, or on clothing.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye protection, face protection.
Wear respiratory protection.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center, doctor.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water, shower.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center, doctor
Specific treatment is urgent (see first aid section on this label)
If skin irritation or a rash occurs: Get medical advice, attention.
If experiencing respiratory symptoms: Call a poison center, doctor
Take off immediately all contaminated clothing and wash it before reuse.
Storage
Store locked up in a well ventilated place. Keep container tightly closed.

Disposal
Dispose of contents, container in accordance with all governmental regulations.

Hazards Not Otherwise Classified: No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td></td>
<td>07732-18-5</td>
<td>92.5</td>
</tr>
<tr>
<td>Potassium dichromate</td>
<td>Potassium bichromate; Bichromate of potash</td>
<td>07778-50-9</td>
<td>7.5</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. Seek medical attention.

**Eye Contact:** Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek immediate medical attention.

**Skin Contact:** Immediately remove contaminated clothing. Flush skin with water for at least 15 minutes. Seek immediate medical attention.

**Ingestion:** Do not induce vomiting. If victim is conscious, rinse mouth, give water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Additional notes:** Symptoms and effects include burns to skin, eyes, respiratory tract; allergy-like symptoms, breathing difficulties. May be fatal if swallowed, inhaled, or in contact with skin. Carcinogen.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Material is not flammable. Use extinguishing media suitable to surrounding materials. Contain water runoff.

**Special Equipment and Precautions:** Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

**Specific Hazards:** Fire conditions may liberate toxic and noxious fumes.

**Hazardous combustion products:** Oxides of chromium, oxides of potassium.

### 6. ACCIDENTAL RELEASE MEASURES

**Spill Procedures:** Prevent spread of spill. Absorb with sand or inert material. Sweep or scoop into a dry disposal container. Wear suitable protective equipment. Contain rinse water for proper disposal. Do not flush residues to sewer or storm drain.

### 7. HANDLING AND STORAGE

**Incompatible Materials:** Incompatible with strong acids. Combustible materials, organic materials, strong reducing agents, powdered metals, hydrazine.

**Storage and Handling:** Store locked up in a cool, dry, well-ventilated area or cabinet dedicated to the storage of toxic materials. Isolate away from incompatible materials. Keep containers well closed and protect them from physical damage.

**Obtain special instructions before use.**

**Do not handle until all safety precautions have been read and understood.**

**Keep away from heat.**

**Keep and store away from clothing, combustible materials.**

**Take any precaution to avoid mixing with combustibles**

**Do not breathe dust, fume, gas, mist, vapors, spray.**

**Do not get in eyes, on skin, or on clothing.**

**Wash thoroughly after handling.**

**Do not eat, drink or smoke when using this product.**

**Use only outdoors or in a well-ventilated area.**

**Contaminated work clothing must not be allowed out of the workplace.**

**Wear protective gloves, protective clothing, eye protection, face protection.**

**Wear respiratory protection.**

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**OSHA & ACGIH Exposure Limits:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>Water</td>
<td>None identified</td>
</tr>
<tr>
<td>Potassium dichromate</td>
<td>OSHA TWA: 5 ug/m³ [as Cr(VI)] ACGIH TWA: 0.05 mg/m³ (as Cr)</td>
<td></td>
</tr>
</tbody>
</table>

**Engineering Controls:** Use general or local exhaust ventilation to meet TLV and PEL requirements.

**Respiratory Protection:** Respiratory protection required if airborne concentrations exceed PEL or TLV. Use a NIOSH approved respirator with a particulate filter.

**Skin/Eye Protective Equipment:** Safety goggles, protective clothing and gloves appropriate for the risk of exposure.

Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

### 9. PHYSICAL AND CHEMICAL PROPERTIES
Apearance: Clear, yellow-orange liquid
Odor: Not available
Odor Threshold: Not available
pH: Not available
Melting/Freezing Point: Not available
Initial Boiling Point and Boiling Range: Not available
Flash Point: Not available
Evaporation Rate: Not available
Flammability: Not flammable
Flammable or Explosive: Upper: Not available
Limits (% by volume in air) Lower: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Relative Density: Not available
Solubility: Miscible with water
Partition Coefficient: n-octanol/water Not available
Auto-Ignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity: Not available

10. STABILITY AND REACTIVITY
Reactivity: No information available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur
Conditions to Avoid: Excessive heat.
Decomposition Products: Oxides of chromium, oxides of potassium.

11. TOXICOLOGICAL INFORMATION
Effects of Over Exposure:
Inhalation: Harmful or fatal if inhaled. Corrosive material. Destructive to the mucous membranes and respiratory tract. May cause coughing, wheezing, fever, headache, perforated septum and labored breathing
Skin Contact: Corrosive material. May cause irritation, redness, ulcerations and scarring. Skin may become sensitized. Absorption through the skin may cause systemic poisoning with symptoms similar to ingestion.
Eye Contact: Corrosive material. May cause redness, pain, burns, conjunctivitis, blurred vision, corneal damage, or blindness.
Ingestion: Harmful or fatal if swallowed. Corrosive material. May cause severe burns, abdominal pain, vomiting, diarrhea, dizziness, muscle cramps, intense thirst, fever, bleeding, shock, liver damage, circulatory collapse, acute renal failure, and coma.
Chronic Effects: Liver damage, kidney damage. Blood and lung damage, skin ulcers, perforated septum, allergic respiratory reaction, allergic skin reaction.
Target Organs: Eyes, skin, respiratory system, liver, kidneys. Blood, gastrointestinal tract.
Additional Effects: May aggravate pre-existing skin conditions. Repeated or prolonged inhalation may cause asthma.
Reproductive Effects: Potassium dichromate has been investigated as a tumorigen, mutagen, and reproductive effector and may impair fertility or cause fetal harm.
Carcinogenicity: Potassium dichromate is listed as a carcinogen by OSHA, by the NTP as Known Human Carcinogen (as Chromium Hexavalent Compounds) and by the IARC as Group 1, Known Human Carcinogen (as Chromium (VI) compounds).

Toxicity Data:
Water No information available
Potassium dichromate LD50 (skin, rabbit) 14 mg/kg
LD50 (oral, rat) 25 mg/kg
LD10 (oral, child) 26 mg/kg

12. ECOLOGICAL INFORMATION
Aquatic Toxicity Data: Terrestrial Toxicity Data:
Water No information available No information available
Potassium dichromate LC50 Lepomis macrochirus: 0.131 mg/L - 96h; EC50 Daphnia magna: 0.035 mg/L - 48h No information available

Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects: Very toxic to aquatic life
Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: Very toxic to aquatic life

13. DISPOSAL CONSIDERATIONS
13. DISPOSAL CONSIDERATIONS
Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION
This product is not a regulated material for domestic ground transportation.

Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

15. REGULATORY INFORMATION
Potassium dichromate is listed in the TSCA inventory and in SARA 313 (as chromium and compounds).

16. OTHER INFORMATION
OSHA SDS #: 26178 rev 102 6.21.2017

NE = Not established, NA = Not applicable or Not available

The information presented above is offered for informational purposes only. This SDS, and the associated product, is intended for use only by technically qualified persons, and at their own discretion and risk. Since conditions and manner of use are outside the control of Integra Chemical Company, we make no warranties, either expressed or implied, and assume no liability in connection with any use of this information.

***** END OF SDS *****