1. IDENTIFICATION

Product Name: SODIUM DICHROMATE, Dihydrate
Synonyms: Sodium bichromate; Chromic acid disodium salt
Formula and Formula Weight: Na2Cr2O7 2H2O  298.04
Integra numbers beginning with: S361.10; S361.50
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

<table>
<thead>
<tr>
<th>OSHA Classification</th>
<th>Hazard Category</th>
<th>Hazard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity - Oral</td>
<td>2</td>
<td>Fatal if swallowed.</td>
</tr>
<tr>
<td>Acute Toxicity - Dermal</td>
<td>4</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>Acute Toxicity - Inhalation</td>
<td>4</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>1B</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>Eye Damage/Irritation</td>
<td>1</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Sensitization - Respiratory</td>
<td>1</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>1B</td>
<td>May cause genetic defects.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>1B</td>
<td>May cause cancer.</td>
</tr>
<tr>
<td>Toxic to Reproduction</td>
<td>1B</td>
<td>May damage fertility or the unborn child.</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (repeated exposure)</td>
<td>1</td>
<td>Causes damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>Oxidizing Solids</td>
<td></td>
<td>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.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- 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 (see first aid section on this label)
- If experiencing respiratory symptoms: Call a poison center, doctor
- Take off contaminated clothing and wash it before reuse.

Storage
- Store locked up.

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

Hazard 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>Sodium dichromate, dihydrate</td>
<td>Sodium bichromate; Chromic acid disodium salt</td>
<td>07789-12-0</td>
<td>100</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 severe skin burns and eye damage; nausea, vomiting, gastrointestinal irritation, burns to the mouth and throat; destruction of mucous membranes, respiratory tract; dizziness, intense thirst, muscle cramps, shock; coma, liver damage, acute renal failure; coughing, choking, wheezing, difficulty breathing, laryngitis, headache, chest pains, pulmonary edema, lung inflammation; perforation of the nasal septum. Occupational carcinogen. May be fatal if inhaled.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Contain runoff.

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

Specific Hazards: Strong oxidizer. Contact with combustible or flammable materials can cause fire or explosion. Thermal decomposition produces toxic fumes.

Hazardous combustion products: Oxides of chrome, oxides of sodium

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Remove all potential ignition sources. Prevent spread of spill. Wear suitable protective equipment. Sweep or scoop into disposal container in a manner that minimizes dust dispersion. 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. Strong reducing agents, alcohol. Combustible, organic or other readily oxidizable materials - especially in the presence of strong acid solutions.

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. Material is an oxidizer. Keep away from flammable or combustible materials. Keep away from heat. Protect from direct light and minimize contact with air.

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.

Wash thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

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

Wear respiratory protection.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:

- Sodium dichromate, dihydrate: OSHA TWA: 5 ug/m3 [as Cr(VI)] ACGIH TWA: 0.05 mg/m3 (as Cr)

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

Appearance: Orange-red crystals or granules.

Odor: No odor

Odor Threshold: Not available

pH: 4.0 for a 1% solution

Melting/Freezing Point: 357 °C

Initial Boiling Point and Boiling Range: Not available

OSHA SDS #: 26386 rev 101 3/27/2015 SODIUM DICHROMATE, Dihydrate
10. STABILITY AND REACTIVITY

Reactivity: Not available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur
Conditions to Avoid: Excessive heat.
Incompatibles: Incompatible with strong acids. Strong reducing agents, alcohol. Combustible, organic or other readily oxidizable materials - especially in the presence of strong acid solutions.
Decomposition Products: Oxides of chrome, oxides of sodium

11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:
Inhalation: Harmful or fatal if inhaled. Causes severe irritation or burns to the respiratory system, coughing, choking, wheezing, difficulty in breathing, laryngitis, headache, nausea, chest pains, pulmonary edema, lung inflammation. May cause perforation of the nasal septum.
Skin Contact: Contact may cause severe irritation or burns. Contact with broken skin may cause ulcers and material may be absorbed in harmful amounts.
Eye Contact: Contact may burn or damage the eyes.
Ingestion: Harmful or fatal if swallowed. Causes nausea, vomiting, gastrointestinal irritation, burns to the mouth and throat. Dizziness, intense thirst, muscle cramps, shock. Coma, liver damage, acute renal failure.
Chronic Effects: Can cause cancer. Repeated or prolonged exposure can cause ulceration and perforation of the nasal septum, respiratory irritation, liver and kidney damage, dermatitis, skin ulcerations.
Target Organs: Eyes, skin, respiratory system, liver, kidneys.
Additional Effects: No information available
Reproductive Effects: This material may be mutagenic and teratogenic.
Carcinogenicity: Sodium dichromate, dihydrate 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:
Sodium dichromate, dihydrate LD50 (oral, rat) 50 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data: No information available
Terrestrial Toxicity Data: No information available

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

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 a regulated material for domestic ground transportation, per CFR Title 49.

UN Number: UN3288
Proper Shipping Name: Toxic solid, inorganic, nos (sodium dichromate)
Packing Group: III
Hazard Class: 6.1
Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available
15. REGULATORY INFORMATION

Sodium dichromate, dihydrate is listed in the TSCA inventory and in SARA 313 (as chromium and compounds).

16. OTHER INFORMATION

OSHA SDS #: 26386 rev 101  3/27/2015

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

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