



## MATERIAL SAFETY DATA SHEET

5100 W. Henrietta Rd.  
West Henrietta, NY 14586  
TEL: (866) 260-0501

MSDS No. 9800604 9800606  
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## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

|                   |  |                          |  |            |        |              |   |            |   |
|-------------------|--|--------------------------|--|------------|--------|--------------|---|------------|---|
| Product           | Ammonium Dichromate  | 416-984-3000<br>NFPA<br> | <table border="1"> <tr><td>Health</td><td>4</td></tr> <tr><td>Flammability</td><td>1</td></tr> <tr><td>Reactivity</td><td>3</td></tr> </table> | Health     | 4      | Flammability | 1 | Reactivity | 3 |
| Health            | 4  |                          |  |            |        |              |   |            |   |
| Flammability      | 1  |                          |  |            |        |              |   |            |   |
| Reactivity        | 3  |                          |  |            |        |              |   |            |   |
| Chemical Synonyms | Ammonium Bichromate  |                          |  |            |        |              |   |            |   |
| Formula           | (NH <sub>4</sub> ) <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> | HAZARD RATING WHMIS      |  |            |        |              |   |            |   |
| CAS No.           | 7789-09-5  | LEAST 0                  | SLIGHT 1   | MODERATE 2 | HIGH 3 | EXTREME 4    |   |            |   |

## SECTION II DANGEROUS INGREDIENTS

| Name                                    | %    | TLV Units                   |
|---|------|-----------------------------|
| Ammonium dichromate                     | 100% | 0.05 mg/m <sup>3</sup> (Cr) |
| <b>DANGER! STRONG OXIDIZER! POISON!</b> |      |                             |

## SECTION III PHYSICAL DATA

|                        |                                      |   |             |
|------------------------|--------------------------------------|---|-------------|
| Melting Point (°C)     | Decomposes.                          | Specific Gravity (H <sub>2</sub> O = 1) | 2.15 @ 25°C |
| Boiling Point (°C)     | Decomposes @ 180°C                   | Percent Volatile by Volume (%)          | N/A         |
| Vapor Pressure (mm Hg) | Negligible.                          | Evaporation Rate (=1)                   | N/A         |
| Vapor Density (Air=1)  | N/A                                  |   |             |
| Solubility in Water    | 30% solution @ 25°C.                 |   |             |
| Appearance & Odor      | Bright red-orange crystals; no odor. |   |             |

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

|                         |   |                                     |     |       |       |
|-------------------------|---|-------------------------------------|-----|-------|-------|
| Flash point             | Flammable solid.  | Flammable Limits in Air % by Volume | N/A | Lower | Upper |
| Firefighting Procedures | Use dry chemical, CO <sub>2</sub> , alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus. |                                     |     |       |       |

Flammability and Explosion Hazards

The product is combustible. Oxidizing material. Avoid contact with organic materials.

**TDG** Class 5.1 Oxidizing substance. UN1439.  
Class 9.2 Environmentally hazardous material.

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Printed on recycled paper.

## SECTION V REACTIVITY DATA

AA0255

|                                  |     |   |   |
|----------------------------------|-----|---|---|
| Chemical Stability               | Yes | X | If no. under what conditions?   |
| Incompatible with Other products | Yes | X | May react or be incompatible with reducing materials, organic materials, oxidizing materials. |
|                                  | No  |   |   |

|                                  |   |
|----------------------------------|---|
| Hazardous Decomposition Products | These products are carbon oxides, nitrogen oxides, ammonia. |
| Reactive under what conditions   | Violent reaction with reducing agents.                      |

## SECTION VI TOXICOLOGICAL PROPERTIES

|                           |   |
|---------------------------|---|
| Route of Entry            | Ingestion. Inhalation.  |
| TLV                       | 0.05 mg/m <sup>3</sup> (Cr)   |
| Toxicity for animals      | N/A   |
| Chronic effects on humans | Suspected carcinogen. Repeated or prolonged exposure to the substance can produce target organ damage. Target organs: Kidneys, liver, respiratory system. |
| Acute effects on humans   | May be harmful if inhaled, swallowed. May cause eye irritation, skin irritation.  |

## SECTION VII PREVENTIVE MEASURES

|                     |  |
|---------------------|--|
| Waste Disposal      | Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.  |
| Storage             | Keep container dry. Keep in a cool place. Oxidizing materials should be stored in a separate safety storage cabinet or room. Keep away from heat, sources of ignition and combustible materials. |
| Precautions         | Avoid contact with skin and eyes. Do not breathe dust. Do NOT ingest. If ingested, seek immediate medical attention.   |
| Spill or leak       | Use appropriate tools to put the spilled solid in a convenient waste disposal container.   |
| Protective Clothing | Safety glasses. Lab coat. Dust respirator.   |

## SECTION VIII FIRST AID MEASURES

|                             |  |
|-----------------------------|--|
| Specific first aid measures | Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention. |
|-----------------------------|--|

## SECTION IX PREPARATION OF THE MSDS

|          |   |      |                  |          |                 |
|----------|---|------|------------------|----------|-----------------|
| Rev. No. | 4 | Date | October 25, 2002 | Approved | Michael Raszeja |
|----------|---|------|------------------|----------|-----------------|