

## MATERIAL SAFETY DATA SHEET

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### Section I: IDENTIFICATION

*Product Name:* **DICHROMATE CLEANING SOLUTION**

*Date Prepared:* 06-09  
*Item Number:* 3379  
*Emergency Phone:* 800-424-9300

### Section II: INGREDIENTS

<i>Hazardous Component(s):</i>	<i>CAS#</i>	<i>OSHA PEL, ACGIH TLV/STEL</i>	<b>NFPA</b>
Sulfuric Acid 28%	7664-93-9	1mg/m <sup>3</sup> 1/3	Health 3
Chromic Acid Flake 7.3%	1333-82-0	1mg/m <sup>3</sup>	Flammability 0 Reactivity 0

### Section III: PHYSICAL DATA

<i>Boiling Point:</i>	290°F	<i>Specific Gravity (H<sub>2</sub>O = 1):</i>	~1.4
<i>Vapor Pressure mm Hg/20 °C:</i>	0.01	<i>Percent Volatile by Vol:</i>	Minimal
<i>Vapor Density (Air 1:1):</i>	3.4	<i>Evaporation Rate (ether = 1):</i>	NA
<i>Solubility in H<sub>2</sub>O:</i>	Complete	<i>Appearance &amp; Odor:</i>	Orange dense liquid/sulfur odor

### Section IV: FIRE/EXPLOSION HAZARD

*Flash Point:* NA                      *Flammable Limits:* LEL, NA                      UEL, NA  
*Extinguishing Media:* Water Spray, Dry Chemical, CO<sub>2</sub> and foam. Do not allow water to enter storage tank.  
*Special Fire Fighting Procedures:* Wear complete protective clothing with NIOSH approved breathing apparatus. Products of combustion are harmful in a fire situation. Do not use direct water stream.  
*Unusual Fire & Explosion Hazards:* Avoid reducing agents/organic materials

### Section V: REACTIVITY

*Stability:* Stable                      *Material to Avoid:* Avoid organic materials and strong bases  
*Hazardous Decomposition or Byproducts:* Hydrogen, sulfur, chromium oxide vapors  
*Hazardous Polymerization:* Does not occur                      *Conditions to Avoid:* Excessive heat

### Section VI: HEALTH HAZARDS

**NOTE: Product as offered is extremely hazardous in case of skin contact. Material is highly corrosive!**

*Routes of Entry:* Inhalation, Skin and Ingestion

*Acute:* Vapors of heated solution will cause eyes, skin, respiratory irritation or burning.

*Chronic:* Not Known, target organs, lungs and mucous membrane.

*Carcinogenicity:* NTP, IARC, ACGIH classified chromium compounds as known human carcinogen.

*Signs/Symptoms of Exposure:* Heated vapors could be cause minor eyes, skin or respiratory irritation.

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### Section VI: HEALTH HAZARDS

*Emergency First Aid:*

**Skin:** Remove contaminated clothing. Wash affected area with soap and water.

**Eyes:** Thoroughly flush eyes with water. Contact a physician if irritation persist.

**Ingestion:** Do not induce vomiting. Rinse mouth immediately with water, provided person is conscious and contact a physician.

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

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### Section VII: SAFE HANDLING

*Chemical Release or Spill:* Clean spill by dilution with water. Use water spray to clean small spills. Dike larger spills with absorbent material. Neutralize with sodium carbonate or weak hydroxide solution. Place all contaminated material in close container for disposal.

*Waste Disposal Method:* All liquid and or contaminated material should be disposed of in DOT approved waste containers. Comply with all Federal, State and Local regulations for disposal.

*Precautions for Handling and Storing:* Use precautions for strong acid and toxic reagents. Avoid excessive heat.

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### Section VIII: TRANSPORTATION

DOT has deemed this material to be Hazardous Materials/Dangerous Goods (HM-181)

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### Section IX: CONTROL MEASURES

*Respiratory Protection:* Not normally required if used in a ventilated area.

*Ventilation:* In ventilated areas, mechanical exhaust is sufficient especially if heated.

*Protective Gloves:* Chemical resistant      *Eye Protection:* Safety glasses/face shield

*Other Protective Clothing or Equipment:* Normal laboratory apparel suggested by Good Laboratory Practices

*Work/Hygienic Practices:* Wash thoroughly with soap and water after handling.

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The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Astraldiagnosics shall not be held liable for any damage resulting from handling or contact with this product.

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