

TO :  
 FROM : HHL FEDER ASSOC

PHONE NO. : 12062518437

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Hal Foster

**Material Safety Data Sheet**  
 May be used to comply with  
 OSHA's Hazard Communication Standard,  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements.

**U.S. Department of Labor**  
 Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

**IDENTITY (As Used on Label and List)**  
**SPEEDBALL Photoemulsion Sensitizer (4574)**

**Section I**

Manufacturer's Name <b>HUNT MANUFACTURING CO.</b>	Emergency Telephone Number <b>704-872-9511</b>
Address (Number, Street, City, State, and ZIP Code) <b>Speedball Road</b>	Telephone Number for Information <b>704-872-9511</b>
<b>Statesville, NC 28677</b>	Date Prepared <b>2/1/93</b>
	Signature of Preparer (optional) <i>[Signature]</i>

**Section II -- Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
<b>Ammonium Bichromate (CAS #7789-09-5)</b>	<b>NA</b>	<b>0.05mg/m3(as Cr)</b>	<b>N/A</b>	<b>3%</b>

**Section III -- Physical/Chemical Characteristics**

Boiling Point	<b>212°F.</b>	Specific Gravity (H <sub>2</sub> O = 1)	<b>1.0</b>
Vapor Pressure (mm Hg.)	<b>NA</b>	Melting Point	<b>32°F</b>
Vapor Density (AIR = 1)	<b>Less than 1</b>	Evaporation Rate (Butyl Acetate = 1)	<b>less than</b>
Solubility in Water	<b>Soluble</b>		
Appearance and Odor	<b>Orange color with no odor</b>		

**Section IV -- Fire and Explosion Hazard Data**

Flash Point (Method Used)	<b>Not flammable</b>	Flammable Limits	<b>N/A</b>	LEL	<b>N/A</b>	UEL	<b>N/A</b>
Extinguishing Media	<b>Water spray</b>						
Special Fire Fighting Procedures	<b>Water runoff may contain hexavalent chromium and should not be allowed to enter sewers or waterways.</b>						
Unusual Fire and Explosion Hazards	<b>N/A</b>						

**Section V - Reactivity Data**

Stability	Unstable		Conditions to Avoid Ammonium bichromate is flammable in a dry state.
	Stable	x	

Incompatibility (Materials to Avoid)  
In a dry state, reducing agents and other oxidizing agents such as potassium chlorate and sodium nitrate.  
Hazardous Decomposition or Byproducts  
Heat, steam, nitrogen gas, chromium oxide (Cr+3)

Hazardous Polymerization	May Occur		Conditions to Avoid N/A
	Will Not Occur	x	

**Section VI - Health Hazard Data**

Route(s) of Entry: Multiple      Inhalation?      Skin?      Ingestion?

Health Hazards (Acute and Chronic)  
Inhalation: Dusts or mists may cause irritation to the respiratory system.  
Ingestion: Can be harmful or fatal. Toxic effects may not appear right away.  
Skin: Dusts and solutions can cause irritation.  
Eyes: Dusts, mists or solutions can cause severe irritation & conjunctivitis.

Carcinogenicity:      NTP?      IARC Monographs?      OSHA Regulated?  
                                 N/A      N/A      YWA=0.1 mg/m3 (as CrO3)

Recent studies indicate an increased incidence of respiratory cancers among long-term employees of the chromate producing industry.  
Signs and Symptoms of Exposure: Not known

Medical Conditions Generally Aggravated by Exposure: Not known

Emergency and First Aid Procedures  
Ingestion: Immediately have victim drink water; then induce vomiting by touching fingers to back of throat.  
Skin & Eye Contact: Wash skin with soap & water. Flush eyes with water for 15 min. & consult physician if irritated.

**Section VII - Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled  
Should be taken up with an absorbent and placed in suitable containers for disposal.

Waste Disposal Method  
Approved waste disposal method. Hexavalent chromium can not be discharged directly to waterways.

Precautions to Be Taken in Handling and Storing  
Avoid contact with skin, eyes & clothing. Wash thoroughly after handling. Handle in a manner that minimizes splashing.

Other Precautions  
Keep away from children

**Section VIII - Control Measures**

Respiratory Protection (Specify Type)  
None required with normal usage.

Ventilation	Local Exhaust	N/A	Special	N/A
	Mechanical (General)	N/A	Other	N/A

Protective Gloves: Impervious      Eye Protection: Splashproof safety goggles

Other Protective Clothing or Equipment  
Eyewash station & emergency shower

Work Hygiene Practices: N/A