

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)
CS01(02)(03)(04)(05)(06)(07)(08) Colored Smoke Powder

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the spaces must be marked to indicate that.

Section I

Manufacturer's Name Theatre Effects	Emergency Telephone Number 513-772-7646
Address (Number, Street, City, State, and ZIP Code) 11707 Chesterdale Road	Telephone Number for Information 513-772-7646
Cincinnati, OH 45246	Date Prepared 2/01/08
	Signature of Preparer (optional)

Section II --- Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Ammonium Chloride (Amchlor • Ammoneric •	10 mg/m³/20 STEL	10 mg/m³	Not established	
Ammoniumchlorid (German) • (Ammonium Chloride		FUME; 9192		
(OSHA) • Ammonium Muriate • Chlorid Amonny (Czech)				
• Darammon • Sal Ammonia • Sal Ammoniac •				
Salammonite • Salmiac)				

Section III -- Physical/Chemical Characteristics

Boiling Point 350°F	Specific Gravity (H ₂ O = 1) 1.53
Vapor Pressure (mm Hg.) <1	Melting Point N/A
Vapor Density (AIR = 1) 1.9	Evaporation Rate (Butyl Acetate = 1) N/A
Solubility in Water Soluble	
Appearance and Odor Powder. Color may vary from off-white to colors.	

Section IV -- Fire and Explosion Hazard Data

Flash point (Method used) N/A - Non-flammable.	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media Water, CO₂, Dry Chemicals, Foam, Fog.			
Special Fire Fighting Procedures Firefighters should use NIOSH-approved SCBA & full protective equipment when fighting a			
chemical fire.			
Unusual Fire and Explosion Hazards Fire or excessive heat may cause production of hazardous decomposition products.			

Section V -- REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Humidity. Ammonium Chloride is hygroscopic.
	Stable	X		

Incompatibility (*Materials to Avoid*) **Strong alkalis, strong acids, lead, silver salts. Forms explosive mixture with potassium chlorate.**

Hazardous Decomposition or Byproducts **Hydrogen chloride gas, ammonia.**

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

Section VI -- Health Hazard Data

Route(s) of Entry: Inhalation? **X** Skin? **X** Ingestion? **X**

Health Hazards (*Acute and Chronic*) **Inhalation: May irritate nose, throat or lungs. Skin: Prolonged contact may cause irritation. Ingestion: Although low in toxicity, ingestion can be harmful. Eyes: May cause irritation.**

Carcinogenicity: NTP? **No** ARC Monographs? **No** OSHA Regulated? **No**

Signs and Symptoms of Exposure **Respiratory irritation, difficulty breathing. Skin irritation. Eye irritation.**

Medical Conditions Generally Aggravated by Exposure **Persons with pre-existing or impaired respiratory or eye functions may be more susceptible to effects of this substance.**

Emergency and First Aid Procedures **Inhalation: Remove to fresh air; if breathing is difficult, administer oxygen. Skin: Wash exposed area with soap and water. Ingestion: Give 2 glasses of water or milk. Induce vomiting. Call a physician. Give nothing by mouth if unconscious. Eyes: Flush with large amounts of water, lifting upper and lower lids occasionally.**

Section VII -- Precautions for Safe Handling and Use

Steps to Be taken in Case Material is Released or Spilled **Shovel dry material into an empty container and cover. Flush residue with plenty of water. Be careful not to raise dust.**

Waste Disposal Method **Approved incineration in accordance with local, state and federal regulations.**

Precautions to be Taken in Handling and Storing **Store in a cool, dry, well-ventilated area protected from moisture and away from heat sources.**

Other Precautions **None.**

Section VIII -- Control Measures

Respiratory Protection (<i>Specify Type</i>)	NIOSH/MSHA approved mask TC214-279	Special	None required
--	---	---------	----------------------

Ventilation	Local Exhaust	X	Other	N/A
	Yes	Mechanical (<i>General</i>)	None required	

Protective Gloves	Rubber gloves.	Eye Protection	Safety glasses or splash goggles.
-------------------	-----------------------	----------------	--

Other Protective Clothing or Equipment **Appropriate to provide body protection. Contact lenses should not be worn. Eye bath, safety shower.**

Work/Hygienic Practices **Use good chemical hygiene practice.**