

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)

FC03 Red A & B Flash Powder ("A")

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 301-491-1387
Address (Number, Street, City, State, and ZIP Code) 642 Frederick Street	Telephone Number for Information 301-791-7646
Hagerstown, Maryland 21740-6815	Date Prepared 9/15/99
	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)
Potassium Chlorate (Chloric Acid • Potassium Salt • Berthollet Salt • Chlorate Potash)	None specified	5 mg/m³		90 - 100

Section III -- Physical/Chemical Characteristics

Boiling Point N/A (Decomposes at 400°C)	Specific Gravity (H ₂ O = 1) 2.32
Vapor Pressure (mm Hg.) N/A	Melting Point 356°C or 673°F (Decomposes at 400°C)
Vapor Density (AIR = 1) 4.20	Evaporation Rate (Butyl Acetate = 1) N/A
Solubility in Water Moderate (1 - 10%)	
Appearance and Odor White crystalline powder, odorless	

Section IV -- Fire and Explosion Hazard Data

Flash point (Method used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media Water spray			
Special Fire Fighting Procedures Firefighters should wear full protective clothing and self contained breathing apparatus. Flood w/ water. Do not try to smother with blanket or extinguish with dry chemical. Chlorates supply their own oxygen to feed a fire.			
Unusual Fire and Explosion Hazards Containers may explode under fire conditions due to pressure developed by oxygen formation during decomposition of chlorates. Move exposed containers from fire area if it can be done without risk. Use water to cool.			

Section V -- REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Heat, shock, friction
	Stable	X		

Incompatibility (*Materials to Avoid*) **Organic materials, combustible materials, strong reducing agents**

Hazardous Decomposition or Byproducts **Hydrogen chloride**

Hazardous Polymerization	May Occur		Conditions to Avoid	Elevated temperatures
	Will Not Occur	X		

Section VI -- Health Hazard Data

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

Health Hazards (*Acute and Chronic*) **Ingestion may cause nausea, vomiting and loss of consciousness.**

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

Signs and Symptoms of Exposure **Overexposure: Dust may irritate nose and throat.**

Overexposure can cause Hemolysis of red blood cells and Methemoglobinemia.

Medical Conditions Generally Aggravated by Exposure **See above**

Emergency and First Aid Procedures **Eyes: Flush with plenty of water for at least 15 minutes. Skin: Wash with plenty of soap and water. Remove contaminated clothing and wash before reuse. Inhalation: Remove to fresh air. Administer oxygen if breathing is difficult. Ingestion: Induce vomiting. Call a physician.**

Section VII -- Precautions for Safe Handling and Use

Steps to Be taken in Case Material is Released or Spilled **Wear self-contained breathing apparatus and full protective clothing. Keep combustibles (wood, paper, oil, etc.) away from spilled material. With clean shovel, carefully place in clean, dry container and cover. Remove from area.**

Waste Disposal Method **Dispose in accordance with all local, state and federal regulations.**

Precautions to be Taken in Handling and Storing **Provide adequate ventilation to prevent dust from settling on structural members and walkways. Do not use water to clean spills on porous or wood floors - surface may become impregnated and extremely hazardous. Store in a cool, dry fire-resistant building. Do not store on wood floors. Do not skid or slide drum.**

Other Precautions **None**

Section VIII -- Control Measures

Respiratory Protection (<i>Specify Type</i>)	Use dust mask suitable for nuisance dust requirements.	Special	None
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Ventilation	Local Exhaust	Not required	Other	None
	Mechanical (<i>General</i>)	X		

Protective Gloves	Butyl rubber gloves	Eye Protection	Safety glasses with sideshields
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Other Protective Clothing or Equipment **Full cover work clothes.**

Work/Hygienic Practices **Good housekeeping procedures are essential. Handle with care and avoid any unnecessary contact.**