

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard. 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health 29 CFR Administration (Non-Mandatory Form)

IDENTITY (As Used on Label and List) Flame Projector – All Sizes, All Colors	Note: Blank spaces are not permitted. If any item is not applicable or not information is available, the space must be marked to indicate that.
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SECTION I

Manufacturer's Name RES Specialty Pyrotechnics, Inc.	Emergency Telephone Number 800-255-3924
Address (Number, Street, City, State and ZIP Code) 21595 286th Street Belle Plaine, MN 56011	Telephone Number for Information 952-873-3113
	Date Prepared March 3, 2009
	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)
NITROCELLULOSE CAS#9004-70-0	10mg/m3			
STRONTIUM NITRATE CAS#10042-76-9	N/A			
BARIUM NITRATE CAS#10022-31-8	0.5 mg/m3	0.5mg/m3		
ALUMINUM CAS#7429-90-5	15mg/m3	15mg/m3		

Contains a pyrotechnic composition. These items are classified as 1.4G Explosives by the U.S. Department of Transportation. No chemical composition is exposed during normal handling and storage.

SECTION III - Physical/Chemical Characteristics

Boiling Point N/A	Specific Gravity (H ₂ O = 1) N/A
Vapor Pressure (mm Hg.) N/A	Melting Point N/A
Vapor Density (AIR = 1) N/A	Evaporation Rate (Butyl Acetate = 1) N/A
Solubility in Water Insoluble	
Appearance and Odor: Dark gray flakes enclosed in cardboard tube, no odor	

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			
Special Fire Fighting Procedures Do not use suffocation methods			
Unusual Fire and Explosion Hazards Devices will burn rapidly in event of fire			

SECTION V - Reactivity Data

Stability	Unstable		Conditions to Avoid: Heat, sparks, open flames, static electricity
	Stable	X	
Incompatibility (Materials to Avoid)			
Hazardous Decomposition or Byproducts			
Hazardous Polymerization	May Occur		Conditions to Avoid NONE
	Will Not Occur	X	

SECTION VI - Health Hazard Data

Route(s) of Entry	Inhalation? NO	Skin? NO	Ingestion? NO
Health Hazards (Acute and Chronic) Nitrogen Oxides caused by burning may cause respiratory and or eye irritation in poorly ventilated areas.			
Carcinogenicity	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
Signs and Symptoms of Exposure	Respiratory irritation		
Medical Conditions Generally Aggravated By Exposure	Asthma, pre-existing respiratory conditions.		
Emergency and First Aid Procedures	Respiratory: Remove patient to fresh air and contact physician if condition persists.		

SECTION VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled	No smoking or open flames. Sweep spilled materials into cardboard container.
Waste Disposal Method	Dispose in compliance with state, federal and local regulations.
Precautions to be Taken in Handling and Storing	Keep materials cool and dry. Keep away from heat and other sources of possible ignition.
Other Precautions	NONE

SECTION VIII - Control Measures

Respiratory Protection (Specify Type) NONE		
Ventilation	Local Exhaust Acceptable	Special NONE
	Mechanical (General)	Other
Protective gloves	If handling powder in quantity	Eye Protection Safety glasses recommended when handling live pyrotechnic device
Other Protective Clothing or Equipment NONE		
Work/Hygienic Practice	No smoking, eating or drinking when handling.	