

# 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) <b>Fireball – All Sizes, All Colors</b>	Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.
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## SECTION I

Manufacturer's Name <b>RES Specialty Pyrotechnics Inc.</b>	Emergency Telephone Number <b>800-255-3924</b>
Address (Number, Street, City, State and ZIP Code)  <b>21595 286<sup>th</sup> Street Belle Plaine, MN 56011</b>	Telephone Number for Information <b>952-873-3113</b>
	Date Prepared <b>March 3, 2009</b>
	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)
ALUMINUM CAS#7429-90-5	15mg/m3	15mg/m3		
ALUMINUM/MAGNESIUM ALLOY	N/A	N/A	oral dog LD50: 230mg/kg	
MAGNESIUM CAS#7439-95-4	15mg/m3(TWA)	10mg/m3(TWA)		
POTASSIUM NITRATE CAS#7757-79-1 (Saltpeter)	N/A	N/A	oral rat LD50:3750mg/kg	
STRONTIUM NITRATE CAS#10042-76-9	N/A			
BARIUM NITRATE CAS#10022-31-8	0.5mg/m3	0.5mg/m3	oral rat LD50:355mg/kg	
HEXAMINE CAS#100-97-0	15mg/m3	10mg/m3 (as particulate)		
LYCOPodium CAS#8023-70-9	N/A	N/A		
ACCAROIDES RESIN (Red Gum)	N/A	15mg/m3 (total dust)		
SARAN RESIN	N/A	N/A		
SULFUR CAS#7704-34-9	N/A	N/A		
CHARCOAL	N/A	N/A		

**Contains a pyrotechnic composition, a solid mixture of fuel and oxidizer, which burns rapidly if ignited. These items are classified as 1.4G Explosives by the U.S. Department of Transportation. No chemical composition is exposed during normal storage and handling.**

## SECTION III - Physical/Chemical Characteristics

Boiling Point <b>N/A</b>	Specific Gravity (H <sub>2</sub> O = 1) <b>N/A</b>
Vapor Pressure (mm Hg.) <b>N/A</b>	Melting Point <b>Ignites</b>
Vapor Density (AIR = 1) <b>N/A</b>	Evaporation Rate (Butyl Acetate = 1) <b>N/A</b>
Solubility in Water <b>Oxidizer component may dissolve after extended exposure to water</b>	
Appearance and Odor <b>Fine grey or yellow powder and granules contained in paper tube, no odor</b>	

## SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used) <b>N/A</b>	Flammable Limits <b>N/A</b>	LEL <b>N/A</b>	UEL <b>N/A</b>
Extinguishing Media <b>Water</b>			
Special Fire Fighting Procedures <b>Do not use suffocation methods, pyrotechnic composition supplies its own oxygen. Clear area and allow to burn out, then treat as normal fire.</b>			
Unusual Fire and Explosion Hazards <b>Devices may burn explosively and rupture storage containers.</b>			

**SECTION V - Reactivity Data**

Stability	Unstable		Conditions to Avoid: <b>Heat, sparks, open flame</b>
	Stable	<b>X</b>	
Incompatibility (Materials to Avoid) <b>Acids, Water</b>			
Hazardous Decomposition or Byproducts <b>Oxides of Strontium, Barium, Metal alloys, Nitrogen and Hydrogen Chloride</b>			
Hazardous Polymerization	May Occur		Conditions to Avoid <b>NONE</b>
	Will Not Occur	<b>X</b>	

**SECTION VI - Health Hazard Data**

Route(s) of Entry	Inhalation? <b>NO</b>	Skin? <b>NO</b>	Ingestion? <b>NO</b>
Health Hazards (Acute and Chronic)			
Carcinogenicity	NTP? <b>NO</b>	IARC Monographs? <b>NO</b>	OSHA Regulated? <b>NO</b>
Signs and Symptoms of Exposure <b>Eye, skin and respiratory irritation possible</b>			
Medical Conditions Generally Aggravated By Exposure		<b>Pre-existing respiratory conditions such as asthma, allergies or sensitivity to ingredients</b>	
Emergency and First Aid Procedures <b>Eyes: Flush with water.      Respiratory: Remove patient to fresh air and contact physician if condition persists.</b>			

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

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

**SECTION VIII - Control Measures**

Respiratory Protection (Specify Type) <b>NONE</b>				
Ventilation	Local Exhaust	<b>Acceptable</b>	Special	<b>NONE</b>
	Mechanical (General)		Other	
Protective gloves	<b>None required</b>		Eye Protection	<b>Safety Glasses Recommended</b>
Other Protective Clothing or Equipment <b>Cotton clothing</b>				
Work/Hygienic Practice		<b>No smoking, eating or drinking when handling</b>		