

**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** Consumer Fireworks, 1.4G

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.

**Section I**

Name Spirit of '76 Fireworks	Emergency Telephone Number 1-800-535-5053 (INFOTRAC) (100581)
Address (Number Street) 6401 West Highway 40	Telephone Number for Information (573) 447-1776
Address (City, State, ZIP) Columbia, MO 65202	Date Prepared 01-23-09
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)
1.4G UN0336, PGII				.25 of gross weight

Contains pyrotechnic composition - a solid mixture of oxidizer and fuel that will burn if ignited. These items are classified as 1.4G explosive by DOT.

No chemical composition is exposed during normal handling and storage.

**Section III — Physical/Chemical Characteristics**

Boiling Point	n/a	Specific Gravity (H <sub>2</sub> 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 Slight

Appearance and Odor All pyrotechnic composition is contained in a cardboard casing.

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

Flash Point (Method Used) n/a	Flammable Limits n/a	LEL n/a	UEL n/a
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Extinguishing Media Flood with water if a small amount of fireworks is involved.

Special Fire Fighting Procedures Do not use suffocation methods - devices contain their own oxygen. If a large amount of fireworks are involved, allow them to burn and prevent spread of fire.

Unusual Fire and Explosion Hazards Fireworks will burn rapidly in the event of fire.

**Section V – Reactivity Data**

Stability	Unstable	<input type="checkbox"/>	Conditions to Avoid Open flames, smoking.
	Stable	<input checked="" type="checkbox"/>	
Incompatibility (Materials to Avoid) Exposure to water may cause items to deteriorate.			
Hazardous Decomposition or Byproducts Smoke, nitrogen oxides, and sulfur oxides may be produced in a fire.			
Hazardous Polymerization	May Occur	<input type="checkbox"/>	Conditions to Avoid
	Will Not Occur	<input checked="" type="checkbox"/>	

**Section VI – Health Hazard Data**

Route(s) of Entry:	Inhalation? <input type="checkbox"/>	Skin? <input type="checkbox"/>	Ingestion? <input type="checkbox"/>
Health Hazards (Acute and Chronic) Exposure to finished items does not pose any health hazard.			
Carcinogenicity: No	NTP? No	IARC Monographs? No	OSHA Regulated? No
Signs and Symptoms of Exposure n/a			
Medical Conditions Generally n/a Aggravated by Exposure			
Emergency and First Aid Procedures n/a			

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

Steps to Be Taken in Case Material is Released or Spilled No smoking or open flames in vicinity of spilled material. Carefully pick up and place spilled items in cardboard cartons. Sweep up any exposed chemical composition with a natural fiber brush.
Waste Disposal Method In accordance with local, state, and federal regulations.
Precautions to Be Taken in Handling and Storing Avoid open flames, smoking, and high temperatures (above 120°F). Keep shipping cartons cool and dry.
Other Precautions None

**Section VIII – Control Measures**

Respiratory Protection (Safety Type) None required when handling finished items.		
Ventilation	Local Exhaust n/a	Special n/a
	Mechanical (General) n/a	Other n/a
Protective Gloves None required	Eye Protection n/a	
Other Protective Clothing or Equipment n/a		
Work/Hygienic Practices No smoking in vicinity of fireworks.		



# MATERIAL SAFETY DATA SHEET

## SECTION I - PRODUCT IDENTIFICATION

**Product Name:** PRO-STAGE II STAGE GERBS – 15' & 20'  
**Product Use:** Pyrotechnic for technical use  
**WHMIS/OSHA Class:** Not controlled  
**T.D.G./DOT Classification:** 1.4G, UN0431 (EX2004080158)  
**Manufacturer/Supplier:** Le Maitre Ltd  
**Address:** Fourth Drove, Peterborough  
 Cambs, PE1 5UR, England  
**Telephone:** USA (512) 451-4392  
**Emergency Phone Number:** CHEM-TEL USA (800) 255-3924

## SECTION II - INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>ACGIH-TLV</u>	<u>LC<sub>50</sub></u>	<u>LD<sub>50</sub></u>
Meal A (explosive, blackpowder)		n/k	n/k	n/k
Potassium nitrate (oxidiser)	7757-79-1	n/k	n/k	n/k
Charcoal (fuel)	16291-96-6	n/k	n/k	n/k
Sulfur (fuel)	7704-34-9	n/k	n/k	n/k
Titanium (fuel)	7440-32-6	n/k	n/k	n/k

## SECTION III - PHYSICAL DATA

<b>Boiling Point (deg C):</b> Not available	<b>Specific Gravity (H<sub>2</sub>O = 1):</b> Not available
<b>Vapour Pressure (mmHg @ 20°C):</b> Not available	<b>% Volatile (Wt %):</b> Not available
<b>Vapour Density (Air = 1):</b> Not available	<b>Evaporation Rate (Water = 1):</b> Not available
<b>Solubility in Water:</b> Nitrate soluble	<b>pH:</b> Not known
<b>Physical State:</b> Solid	<b>Viscosity:</b> Not available
<b>Appearance and Odour:</b> Compacted black powder within A rolled paper case, odourless	<b>Odour Threshold (ppm):</b> Not available

## SECTION IV - FIRE AND EXPLOSION DATA

**Flammability:** Flammable.  
**Flash Point (deg C, TCC):** Not available      **LEL:** Not available      **UEL:** Not available  
**Hazardous Combustion Products:** Not available  
**Auto ignition Temperature (deg C):** Not available.  
**Means of Extinction:** Fight fire with water.  
**Special Fire Hazards:** Localised effect. Hazardous effects normally confined to the package unless the package has been degraded by fire, in which case not such that fire fighting is hindered.

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**SECTION V - REACTIVITY DATA**

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**Conditions for Chemical Instability:** Excessive humidity.

**Incompatible Materials:** Acids.

**Reactivity, and Under What Conditions:** Not available

**Hazardous Decomposition Products:** Not available

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**SECTION VI - TOXICOLOGICAL PROPERTIES**

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**Route of Entry:** Eye, inhalation.

**EFFECTS OF EXPOSURE FROM FIRING:**

**Eye:** May cause irritation.

**Inhalation:** May cause respiratory irritation, difficulty in breathing, headaches, nausea and vomiting.

**Irritancy:** Non-hazardous.

**Respiratory Tract Sensitization:** No data available.

**Carcinogenicity:** No data available.

**Teratogenicity, Reproductive Effects:** No data available.

**Mutagenicity:** No data available.

**Synergistic Materials:** Not available.

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**SECTION VII- PREVENTATIVE MEASURES**

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**Gloves:** Cotton or leather recommended.

**Eye Protection:** Safety glasses recommended.

**Respiratory Protection:** (If used in enclosed place with no ventilation) full-face respirator.

**Other Protective Equipment:** As required by employer code.

**Engineering Controls:** General ventilation normally adequate.

**Leak and Spill Procedure:** No smoking. No naked flames. Sweep or pick up articles. Swill down spillage area with water.

**Waste Disposal:** Pierce cap whilst holding underwater. Shake to allow water entry. Leave outside for 48 hours away from ignition sources. Review federal, provincial and local government requirements prior to disposal.

**Storage and Handling Requirements:** Store in cool, dry conditions. Keep area clean and employ good working practices.

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**SECTION VIII - FIRST AID**

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**Eye:** Immediately flush with water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops.

**Skin:** Not a normal route of harmful exposure. Flush with water. Wash thoroughly with soap and water. Obtain medical attention if irritation develops.

**Inhalation:** Not a normal route of harmful exposure. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion:** Do not induce vomiting. Rinse mouth with water, then drink one glass of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

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**SECTION IX - PREPARATION INFORMATION**

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**Date:** 16th July 2009

**Telephone:** UK +44 (0) 1733 346824

**MSDS Prepared by:** Le Maitre Ltd

Updated version at [www.lemaitreusa.com](http://www.lemaitreusa.com)

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