

# 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)

**FC06 Photo A & B Flash Powder ("B")**

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 <b>Theatre Effects</b>	Emergency Telephone Number <b>301-491-1387</b>
Address (Number, Street, City, State, and ZIP Code) <b>642 Frederick Street</b>	Telephone Number for Information <b>301-791-7646</b>
<b>Hagerstown, Maryland 21740-6815</b>	Date Prepared <b>9/15/99</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)
<b>Magnesium Powder (Magnesium, Technical)</b>	<b>Not Established</b>	<b>Not Established</b>	<b>None Specified</b>	<b>&gt;98</b>

## Section III -- Physical/Chemical Characteristics

Boiling Point <b>1110°C or 2030°F</b>	Specific Gravity (H <sub>2</sub> O = 1) <b>1.74</b>
Vapor Pressure (mm Hg.) <b>N/A</b>	Melting Point <b>650°C or 1202°F</b>
Vapor Density (AIR = 1) <b>.84</b>	Evaporation Rate (Butyl Acetate = 1) <b>N/A</b>
Solubility in Water <b>Negligible</b>	
Appearance and Odor <b>Silver gray odorless metallic powder</b>	

## Section IV -- Fire and Explosion Hazard Data

Flash point (Method used) <b>(Closed cup) 634°C or 1175°F</b>	Flammable Limits <b>N/A</b>	LEL <b>Not Known</b>	UEL <b>Not Known</b>
Extinguishing Media <b>Smother fires with dry graphite, talc, dry sand, or metal extinguishing agent. No foam, halogens or CO<sub>2</sub>.</b>			
Special Fire Fighting Procedures <b>Firefighters wear self contained breathing apparatus and protective clothing. Move exposed containers from fire area if it can be done without risk. Keep exposed containers cool.</b>			
Unusual Fire and Explosion Hazards <b>Fine powder, chips, and turnings are easily ignited and burn with intense heat and brilliant white flame. Powders may form explosive mixtures with air.</b>			

**Section V -- REACTIVITY DATA**

Stability	Unstable		Conditions to Avoid	Magnesium powder can be ignited at air temperatures below 900°F.
	Stable	X		

Incompatibility (*Materials to Avoid*) **Magnesium reacts with water or acids to form hydrogen.**

Hazardous Decomposition or Byproducts **Magnesium oxide**

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

**Section VI -- Health Hazard Data**

Route(s) of Entry: Inhalation? **Yes** Skin? **No** Ingestion? **No**

Health Hazards (*Acute and Chronic*) **Acute: Exposure to magnesium metal or oxide dust should be a low health risk by inhalation. Exposure to magnesium oxide fumes can result in metal fume fever. Chronic: None specified by manufacturer**

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

Signs and Symptoms of Exposure **Eyes: Corneal abrasion. Inhalation: Temporary symptoms of metal fume fever are fever, chills, nausea, vomiting, and muscular pain. Magnesium metal or oxide dust is only a nuisance dust.**

Medical Conditions Generally Aggravated by Exposure **Individuals with a history of respiratory conditions may be at increased risk.**

Emergency and First Aid Procedures **Eyes: Do not flush with water. Remove particles w/cotton tip applicator. Inhalation: Remove to fresh air. Onset of symptoms occurs 4-12 hours after exposure. Recovery is usually complete in 24-48 hours. Ingestion: No problem. Induce vomiting.**

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

Steps to Be taken in Case Material is Released or Spilled **Use respirator. Avoid dusting. Use non-sparking tools. Clean dry powder may be swept gently to avoid dusting and placed in clean drums and sealed. Wet or contaminated material should be placed in vented containers and moved to a remote area.**

Waste Disposal Method **Notify your local environmental officer. Keep in covered containers pending disposal. Dispose of in accordance with all applicable federal, state and local environmental regulations.**

Precautions to be Taken in Handling and Storing **Ground all handling and transferring operations. Store in DOT approved containers. Avoid direct viewing of magnesium fires as eye injury may result. No smoking in any area where magnesium is handled or stored.**

Other Precautions **Periodic medical examinations are recommended for individuals regularly exposed to dust.**

**Section VIII -- Control Measures**

Respiratory Protection ( <i>Specify Type</i> )	Use NIOSH/MSHA-approved respirator with dust cartridge if TLV is exceeded.	Special	None
--	--	---------	------

Ventilation	Local Exhaust	Use to maintain exposure level below TLV.	Other	None
	Mechanical ( <i>General</i> )	Yes		

Protective Gloves	Yes	Eye Protection	Safety glasses with sideshields or goggles
-------------------	-----	----------------	--

Other Protective Clothing or Equipment **Flame resistant clothing without cuffs or pockets recommended. Avoid wearing fabrics that cause static sparks.**

Work/Hygienic Practices **Constant and thorough cleanup (including rafters) and good housekeeping to prevent dust and powder accumulation. Warning! Dangerous when wet. Spontaneously combustible. Do not use water. No smoking.**