

MATERIAL SAFETY DATA SHEET

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Barium Sulfate Suspension Products

Date Revised: March 1, 2004

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SECTION I - PRODUCT IDENTIFICATION

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Product Name: Barium Sulfate Suspension Products  
Manufacturer: E-Z-EM Canada, Inc. 11100 Colbert, Anjou, Quebec H1J 2M9, Canada;  
\*Product Code 575 is manufactured for E-Z-EM.  
Emergency/Information Contact: Judy Hauser/Adrienne Setton  
Emergency/Information Telephone: (516) 333-8230 extension 2377/2400  
Product Codes: 575\*,720,721,723,724,726,728,729,738,770,7150, 7250,7350,7450,8100,8140,9450, L147,L150,L164,L168, L172, L178, L186,L196,P410,P650PPS,P850PPS

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SECTION II- COMPONENTS

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	<u>CAS No.</u>	<u>%(optional)</u>
Barium Sulfate (can contain silica - quartz)	7727-43-7 (14808-60-7)	Proprietary (0.1 - 1% of barium sulfate)
Suspending and Dispersing Agents		Proprietary
Flavors		Proprietary
May contain Sorbitol	50-70-4	Proprietary
May contain Poligeenan	53973-98-1	>0.1%
May contain Sodium Saccharin	128-44-9	<0.1%

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SECTION III - PHYSICAL DATA

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Boiling Point: Not Tested                      Specific Gravity (H<sub>2</sub>O = 1): Range : Not Tested  
Vapor Pressure (mm Hg): Not Tested              Melting Point: Not Tested

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Vapor Density (Air = 1): Not Tested      Evaporation Rate (Butyl Acetate = 1): Not Tested

Solubility in Water: Insoluble

Appearance & Odor: White to Off-white or tan suspension with no odor or slightly fruity or vanillin odor.

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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Flash Point (method): Not Tested      Flammable Limits: UEL - N/A    LEL - N/A

Fire Extinguishing Media: Use extinguishing media that is suitable for surrounding fire.

Special Fire Fighting Procedures: Firefighters should wear full protective equipment and self-contained breathing apparatus with full face piece.

Unusual Fire & Explosion Hazards: None known

Toxic Gases Emitted: sulfur dioxide

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SECTION V - REACTIVITY DATA

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Stability: Stable      Conditions to avoid: none documented

Incompatible materials: Phosphorus, Aluminum

Decomposition products: Not Tested    Hazardous Polymerization: Will not occur

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SECTION VI - HEALTH HAZARD DATA

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Permissible Exposure Limit (PEL) for barium sulfate: Total Dust - 15 mg/m<sup>3</sup> Time Weighted Average (TWA), Respirable dust - 5 mg/m<sup>3</sup> TWA. Dust is not a concern since these products are liquids.

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Threshold Limit Value (TLV) for barium sulfate: Total Dust: 10 mg/m<sup>3</sup> TWA  
Silica - quartz, respirable dust - 0.1 mg/m<sup>3</sup> TWA. Dust is not a concern since these products are liquids.

Short-Term Exposure Limit (STEL): Not Established

Routes of Exposure: Inhalation (dust exposure is not a concern since these products are liquids),  
Ingestion

Health Hazards (acute and chronic): Through normal routes of entry, not expected to be a hazard.  
In some cases where skin and eye contact occurs, product may cause irritation. No adverse health effects expected from chronic exposure.

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### SECTION VI - HEALTH HAZARD DATA contd.

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Carcinogenicity: Some products contain poligeenan. IARC lists poligeenan as a Class 2B meaning it is "possibly carcinogenic to humans."  
NTP: No IARC: Yes OSHA: No

Effects of exposure: May cause constipation. Some formulations contain sorbitol, which may cause diarrhea in some individuals. Consult label for more information.

Medical conditions generally aggravated by exposure: No information found relating to normal routes of exposure.

Emergency and First Aid procedures: Eye contact - Flush with water for at least 15 minutes.  
Skin contact - wash area thoroughly with soap and water.  
If ingested and person is conscious - give several glasses of water to dilute.  
If irritation persists or large quantities are ingested, get medical attention.

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### SECTION VII - SPILL AND DISPOSAL INFORMATION

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Steps to be taken in case material is released or spilled:

Wear appropriate protective equipment. Absorb spill with an absorbent and inert material, such as sand or vermiculite. Place materials in container and label properly.

Waste Disposal Procedures:

Products are not listed hazardous wastes under RCRA. Products are not likely to qualify as characteristic hazardous wastes, but any final determination depends on the specific circumstances of product usage and handling. Disposal should take place in compliance with federal, state and local laws and regulations.

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### SECTION VIII - HANDLING AND STORAGE PRECAUTIONS

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Store indoors in a tightly closed container, protected from extreme temperatures and potential sources of damage. Can be stored in any general chemical storage area.

Do not smoke, eat or drink while handling any chemical. Practice good industrial and personal hygiene to avoid unnecessary exposure.

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### SECTION IX - PROTECTIVE EQUIPMENT

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Respiratory Protection: Barium sulfate liquid suspensions are not expected to require any personal respirator usage.

Ventilation: Use adequate local exhaust ventilation to keep fume levels as low as possible.

Protective Gloves: Appropriate gloves.

Eye Protection: Safety goggles or glasses.

Emergency Equipment: Always ensure there is an emergency eye wash in the area.

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Disclaimer: The information contained in this Material Safety Data Sheet is believed to be correct, but does not purport to be all inclusive, and should only be used as a guide. E-Z-EM Inc. or subsidiaries of shall not be held liable for any damage resulting from the handling or contact with these products.

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