

**W. R. GRACE**  
**MATERIAL SAFETY DATA SHEET**

Product Name: Monokote® Accelerator  
MSDS ID Number: Z-01766

MSDS Date: 03/25/2009

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Monokote® Accelerator  
**MSDS Number:** Z-01766  
**Cancelled MSDS Number:** Z-01650  
**MSDS Date:** 03/25/2009  
**Chemical Family Name:** Aluminum Sulfate Hydrate  
**Product Use:** Plaster Set-time Accelerator  
**Chemical Formula:**  $Al_2(SO_4)_3 \cdot 18 H_2O$  approx.  
**CAS # (Chemical Abstracts Service Number):** 10043-01-3

**Manufactured by:**

W.R.Grace & Co.-Conn. 62 Whittemore Avenue Cambridge, MA 02140	Grace Canada, Inc. 294 Clements Road West Ajax, Ontario L1S 3C6
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**In Case of Emergency Call:**

In USA: (617) 876-1400 In Canada: (905) 683-8561

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	CAS#	Percent (max)
Aluminum sulfate	010043-01-3	50-100

**SECTION 3 - HAZARDS IDENTIFICATION**

**Emergency Overview:**

Warning !  
Causes eye burns.  
Causes skin irritation.  
May be harmful if ingested.  
Causes digestive tract burns if ingested.

**HMIS Rating:**

Health: 2  
Flammability: 0  
Reactivity: 0  
Personal Protective Equipment: E (See Section 8)

**Potential Health Effects:**

**Inhalation:** Causes respiratory tract irritation. If prolonged exposure to vapor or mist occurs, effects may be more severe resulting in coughing and breathing difficulties.  
Effects include: Coughing, shortness of breath, difficulty breathing, chest tightness and sore throat.  
**Eye Contact:** Eye contact causes severe chemical irritation and burns.  
Prolonged eye contact can result in redness and itching.  
**Skin Contact:** Skin contact causes irritation.  
Prolonged skin contact may cause skin rash and can result in burns.  
**Skin Absorption:** Not expected to be harmful if absorbed through the skin.  
**Ingestion:** Harmful if ingested.  
If ingested, causes burns to the linings of the mouth, esophagus and stomach.  
Effects include: Nausea, vomiting and diarrhea.

**SECTION 4 - FIRST AID MEASURES:**

**Skin Contact:** Wash with soap and water.  
If discomfort or irritation persists, consult a physician.  
Remove contaminated clothing and wash before reuse.  
**Eye Contact:** Flush eyes with water for at least 15 minutes while holding eyelids open.  
Get immediate medical attention.  
**Ingestion:** Do not induce vomiting.  
Never give anything by mouth to an unconscious person.  
If discomfort or irritation persists, consult a physician.

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**Inhalation:** If symptoms develop, get fresh air. If symptoms persist, consult a physician.  
If breathing has stopped, give artificial respiration then oxygen if needed.

**SECTION 5 - FIRE AND EXPLOSION HAZARD DATA**

**Flash Point:** Not Applicable  
**Flash Point Method:** Not Applicable  
**Lower Explosion Limit:** Not Available  
**Upper Explosion Limit:** Not Available  
**Auto-Ignition Temperature:** Not Available

**NFPA Rating:**

**Health:** 0  
**Flammability:** 0  
**Reactivity:** 0

**Extinguishing Media:** Dry chemical, carbon dioxide, water spray, or chemical foam.

**Special Fire Fighting Procedures:** Wear self contained breathing apparatus and complete personal and protective equipment when potential exposure to vapor or products of combustion exist. Prevent run off from fire control or dilution from entering streams or drinking water supplies.

No special procedures specific to this product.

**Unusual Fire and Explosion Hazards:** None unless noted below.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES:**

**Spills/Leaks:** Use proper personal protective equipment. Keep unnecessary people away.

If spilled, prevent material from entering water systems, observing the listed Precautionary Measures found in Section 7 of the MSDS.

Dry spills should be immediately swept up and placed in a suitable container to prevent further release of material. Slurry spills should be immediately contained (to minimize the extent of the spill) and absorbed with an inert, non-combustible material. Place material in a suitable container to prevent further release.

**SECTION 7 - HANDLING AND STORAGE**

**Precautionary Measures:** Avoid contact with eyes, skin and clothing.

Do not take internally.

Practice good personal hygiene to avoid ingestion.

Use only with adequate ventilation.

Keep bags closed when not in use.

Wash clothing before reuse.

Equip mixers with dust covers.

Provide respiratory protection if needed.

Wear skin and eye protection to avoid contact with dust or spray.

**FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.**

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT**

**EXPOSURE GUIDELINES (US)**

Ingredient	ACGIH TLV			OSHA PEL			Other
	TWA	STEL	Ceiling	TWA	STEL	Ceiling	
Aluminum sulfate	-	-	-	-	-	-	-

In addition to the exposure limits referenced above, the following non-specific limits for dust apply to this product; OSHA, 15 mg/m<sup>3</sup>-TWA or Total Dust and 5 mg/m<sup>3</sup>-TWA as Respirable Dust, ACGIH, 10 mg/m<sup>3</sup>-TWA as Total Dust and 3 mg/m<sup>3</sup>-TWA as Respirable Dust.

**EXPOSURE GUIDELINES (CANADA)**

Employers should consult local Provincial regulatory limits for exposure guidelines which may vary locally.

**Engineering Controls:** Exhaust fans may be necessary when mixing in enclosed areas.

**Personal Protective Equipment:**

**Respiratory Protection:** Wear approved Dust/Mist respiratory (N-95) protection to prevent employee exposure from exceeding the limits specified in this section.

**Skin Protection:** Work gloves or hand creams are recommended to prevent drying of skin.

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**Eye Protection:** At minimum, safety glasses with side shields should be worn. Where exposure to excessive dust or spray is likely, splash goggles should be worn.

**Work/Hygienic Practices:** Use good personal hygiene practices.

Use bag opening and disposal procedures which minimize dust release. Equip mixers with dust covers to minimize dust released during mixing cycle.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Solid
Appearance/Odor:	White odorless powder.
Odor Threshold: (ppm)	Not Applicable
pH:	1% solution-3.5
Vapor Pressure: (Mm Hg)	Not Applicable
Vapor Density: (Air = 1)	Not Applicable
Solubility In Water:	50% @ 0°C
Specific Gravity: (Water = 1)	1.61
Evaporation Rate: (Butyl Acetate = 1)	Not Applicable
Boiling Point:	>212°F/100°C
Viscosity:	Unknown
Bulk Density: (Pounds/Cubic Foot)(Pcf)	Not Applicable
% Volatiles (gr/L): (70°F) (21°C)	Not Applicable

**SECTION 10 - STABILITY AND REACTIVITY**

Chemical Stability:	Stable
Conditions To Avoid:	None known for this product.
Hazardous Polymerization:	Will not polymerize.
Hazardous Decomposition Products:	None known for this product.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b>Ingredient(No data unless listed.)</b>	<b>CAS Number</b>	<b>LD50 and LC50</b>
Aluminum sulfate	010043-01-3	Oral LD50 Mouse : 6207 mg/kg

**Carcinogenicity:**

Ingredient	IARC Group 1	IARC Group 2A	IARC Group 2B	NTP Known	NTP Suspect	OSHA
Aluminum sulfate	No	No	No	No	No	No

**Mutagenicity:** Not applicable.

**Teratogenicity:** Not applicable.

**Reproductive Toxicity:** Not applicable.

**SECTION 12 - ECOLOGICAL INFORMATION**

**Environmental Fate:** No data available for product.

**Ecotoxicity:** No data available for product.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Waste Disposal Procedures:** Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing waste for disposal. According to EPA (40 CFR § 261), waste of this product is not defined as hazardous. Dispose of waste in accordance with all applicable regulations. Wastes of this product such as empty bags and excess material are typically not defined as hazardous.

**SECTION 14 - TRANSPORTATION INFORMATION**

Proper Shipping Name:	Not Applicable
UN/NA Number:	Not Applicable
Domestic Hazard Class:	Nonhazardous
Surface Freight Classification:	Aluminum Sulfate, Solid
Label/Placard Required:	Not Applicable

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**SECTION 15 - REGULATORY INFORMATION**

**REGULATORY CHEMICAL LISTS:**

**CERCLA (Comprehensive Response Compensation and Liability Act):**  
**(None present unless listed below)**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>	<u>CERCLA RQ</u>
Aluminum sulfate	010043-01-3	100	final RQ = 5000 pounds (2270 kg)

**SARA Title III (Superfund Amendments and Reauthorization Act)**

**SARA Section 312/Tier I & II Hazard Categories:**

Health Immediate (acute)	Yes
Health Delayed (chronic)	No
Flammable	No
Reactive	No
Pressure	No

**302 Reportable Ingredients (Identification Threshold 1%):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>	<u>SARA 302 TPQ</u>
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**313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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**National Volatile Organic Compound Emission Standards For Architectural Coatings:**

Volatile Organic Content: (gr/L) Not Applicable

**WHMIS Classification(s):** D2 B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR). This MSDS contains all the information required by the CPR.

**State Regulatory Information:**

**California Proposition 65:** This product does not contain substances known to the state of California to cause cancer, birth defects or other reproductive harm.

**Massachusetts Hazardous Substance List(identification threshold 0.001%(1ppm)):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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**New Jersey Hazardous Substance List(identification threshold (0.1%)):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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**Pennsylvania Hazardous Substance List(identification threshold 0.01%):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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**CHEMICAL INVENTORY STATUS:**

All chemicals in this product are listed or exempt from listing in the following countries:

US	CANADA		EUROPE	AUSTRALIA	JAPAN	KOREA	PHILIPPINES
TSCA	DSL	NDSL	EINECS/ELINCS	AICS	ENCS	ECL	PICCS
Yes	Yes	No	Yes	Yes	Yes	Yes	Yes

**SECTION 16 - OTHER INFORMATION**

**Non-Hazardous Ingredient Disclosure:**

<u>Chemical Name</u>	<u>CAS Number</u>
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Prepared by: EH&S Department  
Approved by: EH&S Department  
Approved Date: 03/25/2009

**Disclaimer:**

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."