



# MATERIAL SAFETY DATA SHEET

Product Identifier:

## Hardener [Packaged Materials]

### SECTION 1 - PRODUCT IDENTIFICATION AND USE

Product identification: <b>HARDENER [Packaged Materials]</b>			
PIN/ UN No: <b>N/AV</b>		MSDS Number: <b>2016</b>	
Molecular Weight: <b>N/AV</b>			
Chemical Name: <b>Mixture</b>			
Chemical Family: <b>Cement Containing Product</b>		Chemical Formula: <b>N/AV</b>	
Pest Control Product (PCP #): <b>N/AV</b>		Stock Number: <b>N/AV</b>	
Product Group: <b>Level / Hardener</b>			
Product Use: <b>Grout</b>		Synonyms: <b>Cementitious Grout</b>	
WHMIS Classification: <b>D2 E</b>		Means of Classification: <b>CLASS. BY MANUFACTURER</b>	
Manufacturers Name: <b>Basalite Concrete Products, Vancouver, ULC.</b>		Suppliers Name: <b>Basalite Concrete Products, Vancouver, ULC.</b>	
Street Address: <b>1280 W. 77th Avenue</b>		Street Address: <b>1280 W. 77th Avenue</b>	
City: <b>Vancouver</b>	Province: <b>BC</b>	City: <b>Vancouver</b>	Province: <b>BC</b>
Postal Code: <b>V6P 3G8</b>	Emergency Telephone No. <b>604-269-2120</b>	Postal Code: <b>V6P 3G8</b>	Emergency Telephone No. <b>604-269-2120</b>
Comment: <b>Ask for Rocky Pantiluk or the Director Loss Control</b>			

### SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Ingredients	% Ratio	CAS Number: PIN Number:	Test: Related Information:	Value:
<b>Calcium Silicates</b>	<b>10 - 30</b> <b>W/W</b>	<b>N/AV</b> <b>N/AV</b>	<b>N/AP</b> <b>N/AV</b>	<b>N/AV</b>
<b>Calcium Oxide</b>	<b>0.1 - 1.0</b> <b>W/W</b>	<b>1305 - 78 - 8</b> <b>N/AV</b>	<b>N/AP</b> <b>N/AV</b>	<b>N/AV</b>
<b>Magnesium Oxide</b>	<b>0.1 - 1.0</b> <b>W/W</b>	<b>1309 - 48 - 4</b> <b>N/AV</b>	<b>N/AP</b> <b>N/AV</b>	<b>N/AV</b>
<b>Crystalline Quartz</b>	<b>40 - 60</b> <b>W/W</b>	<b>14808 - 60 - 7</b> <b>N/AV</b>	<b>N/AV</b> <b>N/AV</b>	<b>N/AV</b>



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### SECTION 3 - PHYSICAL DATA

Odour & Appearance: <b>Grey-white powder with characteristic mild odour.</b>			
Physical State: <b>SOLID</b>		Odour Threshold: <b>N/AV</b>	
Freezing Point (°C): <b>N/AP</b>		Boiling Point (°C): <b>N/AP</b>	
Vapour pressure (mm Hg): <b>N/AP</b>	Vapour Density (Air=1) <b>N/AP</b>	Percent Volatile: <b>N/AP</b>	Evaporation Rate: <b>N/AP</b>
pH: <b>12 - 13 (Cement)</b>	Specific Gravity: <b>3.15 Cement</b>	Coeff. Water/ Oil Distribution: <b>N/AV</b>	Percent Soluble (@ 20°C): <b>&lt;1%</b>

### SECTION 4 - FIRE AND EXPLOSION DATA

Flammability: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If yes, under which conditions? <b>N/AP</b>		
Extinguishing Media: <b>Sand may be used to extinguish Class A and B fires.</b>			
Special Fire Fighting Procedures: <b>N/AP</b>			
Unusual Fire and Explosion Hazards: <b>None.</b>		Auto-Ignition temperature (°C): <b>N/AP</b>	
Flashpoint (°C) and method: <b>N/AP</b> <b>N/AP</b>	Upper flammability limit (% by volume) : <b>N/AP</b>		Lower flammability limit (% by volume) : <b>N/AP</b>
Hazardous Combustion Products: <b>N/AP</b>			
Explosion data: Sensitivity to impact: <b>N/AP</b>		Sensitivity to static discharge: <b>N/AP</b>	

### SECTION 5 - REACTIVITY DATA

Chemical stability: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Comment: <b>None.</b>		
Incompatibility with other substances: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Comment: <b>Contact with powerful oxidizing agents such as fluorine, chlorine, trifluoride, manganese trioxide, oxygen difluoride may cause fires.</b>		
Reactivity, and under what conditions: <b>No.</b>			
Hazardous polymerization: <b>No. Will not occur.</b>			
Hazardous decomposition products: <b>Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas - silicon tetrafluoride.</b>			



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### SECTION 6 - TOXICOLOGICAL PROPERTIES

Route of Entry: Skin Contact <input checked="" type="checkbox"/>	Skin Absorption: <input type="checkbox"/>	Eye Contact: <input checked="" type="checkbox"/>	Inhalation: <input type="checkbox"/>	Ingestion: <input type="checkbox"/>
<p>Effects of acute exposure to product:</p> <p><b>EYE CONTACT:</b> Can irritate eyes. (Alkali burns)</p> <p><b>INHALATION:</b> Can irritate nose &amp; throat. The cement dust may cause inflammation.</p> <p><b>SKIN CONTACT:</b> Can dry skin. Wet concrete mix may cause alkali burns.</p> <p>NIOSH has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air averaged over a work shift of up to 10 hours per week. The NIOSH Criteria Document for Crystalline Silica should be consulted for more detailed information.</p> <p>Prolonged exposure to respirable crystalline quartz may cause delayed (chronic) lung injury (silicosis). Acute or rapidly developing silicosis may occur in a short period of heavy exposure in certain occupations such as sandblasting. Silicosis is a form of disabling pulmonary fibrosis which can be progressive and may lead to death.</p>				
<p>Effects of chronic exposure to product:</p> <p><b>Cement dust may cause inflammation of the Cornea of the eye and of the tissue lining on the inside of the nose.</b></p>				
<p>Exposure Limits:</p> <p>TWA: <b>10 mg/M3 Cement Dust</b></p> <p>Others: <b>The TWA is for Cement Dust in the air.</b></p> <p>STEL: <b>N/AV</b></p> <p>C: <b>N/AV</b></p> <p>OSHA PEL: <b>N/AV</b></p> <p>ACGIH TLV: <b>N/AV</b></p>				
Carcinogen by NTP: <b>N/AV</b>		Carcinogen by IARC <b>N/AV</b>		OSHA Controlled: <b>N/AV</b>
<p>Irritancy:</p> <p><b>EYES:</b> Can irritate eyes.</p> <p><b>SKIN:</b> Can dry skin and cause rashes.</p> <p><b>INHALATION:</b> Can irritate nose &amp; throat.</p>				
Sensitization: <b>Some people may be very sensitive to this product; skin rash might develop. (Allergic Dermatitis)</b>				
Carcinogenicity: <b>N/AV</b>				
Teratogenicity: <b>N/AV</b>			Reproductive Toxicity: <b>N/AV</b>	
Mutagenicity: <b>N/AV</b>			Synergistic Products: <b>N/AV</b>	



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### SECTION 7 - PREVENTATIVE MEASURES

Personal Protective Equipment:		
Gloves (specify): <b>Rubber or PVC when the mix is wet.</b>	Respirator (specify) <b>NIOSH/MSHA approved Dust Mask, when the mix is dry.</b>	Eye (specify) <b>Tight fitting goggles.</b>
Footwear (specify): <b>Boots that will not soak up wet mix and will be impervious to wet or dry mix.</b>	Clothing (specify) <b>That will keep the powder or the wet mix off skin.</b>	Other (specify) <b>Barrier creams should be applied PRIOR TO contact with product. Wash with soap and water after working with cement containing products.</b>
Engineering controls: <b>VENTILATION: Local exhaust to control airborne dust levels below 10 mg/M3 TWA (cement dust).</b>		
Leak & Spill Procedures: <b>AVOID BREATHING DUST. Use dry cleanup methods that do not send dust into the air.</b>		
Waste Disposal: <b>Dispose of as common waste in accordance with applicable Federal, Provincial, and local environmental regulations.</b>		
Handling Procedures and Equipment: <b>Avoid inhaling large quantities of the dust. Avoid prolonged skin contact with product.</b>		
Storage Requirements: <b>Take normal precautions against bag breakage or spills of bulk material. Avoid creation of respirable dust.</b>		
Special Shipping Information: <b>Keep dry.</b>		

### SECTION 8 - FIRST AID MEASURES

Specific Measures:
<b>INHALATION: Get person to fresh air. Seek immediate medical advice.</b>
<b>EYE CONTACT: Irrigate with water for at least 15 minutes, until no trace of product remains. Consult physician immediately.</b>
<b>SKIN CONTACT: Wash exposed areas with soap and water. If skin is burnt, see Doctor.</b>
<b>INGESTION: Drink copious amounts of water. Do not induce vomiting. Seek immediate medical attention.</b>

### SECTION 9 - PREPARATION DATE OF MSDS



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Prepared By: (Group, Department, Etc.) <b>Rocky D. Pantiluk, A.Sc. T.</b> <b>Basalite Concrete Products, Vancouver, ULC.</b> <b>1280 W.77th Avenue</b> <b>Vancouver, BC</b> <b>V6P 3G8</b>	Phone Number: <b>604 – 269 – 2120</b>	Date: <b>09 / 03 / 06</b> (yy/ mm/ dd)
Workplace MSDS Transcribed by: <b>Laura Voci</b> <b>Basalite Concrete Products, Vancouver, ULC.</b> <b>1280 W.77th Avenue</b> <b>Vancouver, BC</b> <b>V6P 3G8</b>	Phone Number: <b>604 – 269 – 2120</b>	Date: <b>09 / 03 / 06</b> (yy/ mm/ dd)

The information in the MSDS is believed to be accurate at the time of preparation, but no guarantees are given.