

**SOLHYDFLOW THT****SECTION 1. IDENTIFICATION**

<b>Product Identifier</b>	SOLHYDFLOW THT
<b>Other Means of Identification</b>	SOL-FLOW-THT
<b>Recommended Use</b>	High Temperature Resistant cement repair mortar.
<b>Manufacturer/Supplier Identifier</b>	BMQ SOLUTIONS, 1522 Boulevard des Laurentides, Laval, Qc, H7M 2N7, Marc Charlebois, 877-267-7249, <a href="http://www.lafarge.ca/en/bmq-solutions">www.lafarge.ca/en/bmq-solutions</a>
<b>Supplier Identifier</b>	BMQ SOLUTIONS, 1522 Boulevard des Laurentides, Laval, Qc, H7M 2N7, Marc Charlebois, 877-267-7249, <a href="http://www.lafarge.ca/en/bmq-solutions">www.lafarge.ca/en/bmq-solutions</a>
<b>Emergency Phone No.</b>	Marc Charlebois, 514-705-7198, 24 Heures / 7 Jours
<b>SDS No.</b>	01370005
<b>Date of Preparation</b>	avril 29, 2016

**SECTION 2. HAZARD IDENTIFICATION**

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

**Classification**

Acute toxicity (Oral) - Category 4; Skin irritation - Category 2; Serious eye damage - Category 1; Respiratory sensitization - Category 1; Skin sensitization - Category 1; Carcinogenicity - Category 1A; Reproductive toxicity - Category 1B; Specific target organ toxicity (single exposure) - Category 3; Specific target organ toxicity (repeated exposure) - Category 1

**Label Elements**

Danger

Hazard Statement(s):

Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

May cause respiratory irritation.

Prevention:

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

Use only outdoors or in a well-ventilated area.

Do not breathe dust.

Response:

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

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Continue rinsing.

Immediately call a POISON CENTRE or doctor.

IF ON SKIN: Wash with plenty of water/

Take off immediately all contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice or attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTRE or doctor if you feel unwell.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

#### **Other Hazards**

Contains ingredients -in there powdered form -that are suspected of cancer caused by overexpose to the dust and Respirable fractions.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture:

<b>Chemical Name</b>	<b>CAS No.</b>	<b>%</b>	<b>Other Identifiers</b>
Mullite (Al <sub>6</sub> O <sub>5</sub> (SiO <sub>4</sub> ) <sub>2</sub> )/kaolin blend	1302-93-8	<58	
Portland cement	65997-15-1	<52	
Cement, alumina, chemicals	65997-16-2	<23	
Calcium sulfate, anhydrous	7778-18-9	<8	

### **SECTION 4. FIRST-AID MEASURES**

#### **First-aid Measures**

##### **Inhalation**

Move to fresh air. Get medical advice or attention if you feel unwell.

##### **Skin Contact**

Immediately rinse with lukewarm, gently flowing water for 15-20 minutes.

##### **Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

##### **Ingestion**

Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Get medical advice or attention if you feel unwell or are concerned.

#### **Most Important Symptoms and Effects, Acute and Delayed**

If in eyes: can cause thermal burns from heat released when it reacts with water. Symptoms include pain, redness, and swelling. If on skin: may cause skin and eye irritation. May cause burns in presence of moisture do not allow product to harden or have prolonged contact with skin or around body parts if inhaled: may cause respiratory irritation.

#### **Immediate Medical Attention and Special Treatment**

##### **Target Organs**

Respiratory system, eyes, skin.

##### **Special Instructions**

Symptoms may not appear immediately.

##### **Medical Conditions Aggravated by Exposure**

Respiratory conditions, skin conditions.

### **SECTION 5. FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

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### Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

### Unsuitable Extinguishing Media

None known.

### Specific Hazards Arising from the Product

This product presents no unusual hazards in a fire situation.

Not known to generate any hazardous decomposition products in a fire. may include but not limited to Carbon oxides.

### Special Protective Equipment and Precautions for Fire-fighters

Approach fire from upwind to avoid hazardous vapours or gases.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. Minimize the use of water to prevent environmental contamination.

### Methods and Materials for Containment and Cleaning Up

Do not direct water at spill or source. Avoid generating dust. Avoid dry sweeping. If necessary, use a dust suppressant such as water. Do not use compressed air for clean-up.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid generating dusts. Use adequate ventilation and employ respiratory protection where dust or fumes may be generated avoid repeated or prolonged skin contact. Do not get in eyes. Do not use compressed air for cleaning clothing or equipment, etc.

### Conditions for Safe Storage

Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity). Store in the original, labelled, shipping container. Avoid dust build up.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Mullite (Al <sub>6</sub> O <sub>5</sub> (SiO <sub>4</sub> ) <sub>2</sub> )/kaolin blend	10 mg/m <sup>3</sup> A4		15 mg/m <sup>3</sup> A4			
Portland cement	1 mg/m <sup>3</sup> (E) RSEN		15 mg/m <sup>3</sup> (E) RSEN			
Cement, alumina, chemicals	10 mg/m <sup>3</sup>		15 mg/m <sup>3</sup>			
Calcium sulfate, anhydrous	10 mg/m <sup>3</sup>			15 mg/m <sup>3</sup>		

### Appropriate Engineering Controls

Avoid breathing dust keep exposure levels below the exposure limits use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Wear suitable waterproof gloves wear chemical protective clothing e.g. gloves, aprons, boots.

#### Respiratory Protection

Wear a NIOSH approved particulate respiratory equipped with an N95, R95, or P95 filter. When ventilation is inadequate wear a NIOSH approved air-purifying respirator with N100, R100, or P100 filter(s).

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Dark grey - brown fine powder.
Odour	Not available
Odour Threshold	Not available
pH	> 11
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	2.7 - 3.0 at 20 °C
Solubility	Dispersible in water; Not applicable (in other liquids)
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Other Information	
Physical State	Solid

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use. Will react in presence of water- Will heat up and harden.

### Chemical Stability

Normally stable. Keep in a dry storage area.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Incompatible materials. Water, moisture or humidity.

### Incompatible Materials

May React with strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide).  
In the presence of water, corrosive to: aluminum alloys.

### Hazardous Decomposition Products

May include ,and are not limited to: oxides of carbon.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation; skin contact; skin absorption; eye contact; ingestion.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Mullite (Al <sub>6</sub> O <sub>5</sub> (SiO <sub>4</sub> ) <sub>2</sub> )/kaolin blend	> 2.3 mg/L (rat) (4-hour exposure)	> 5000 mg/kg (rat)	

### Skin Corrosion/Irritation

May cause moderate or severe irritation based on information for closely related materials. May cause moderate or severe irritation based on information for closely related materials. May burn the skin. Permanent scarring may result.

### Serious Eye Damage/Irritation

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May cause serious eye damage based on information for closely related materials. Symptoms include sore, red eyes, and tearing.

#### STOT (Specific Target Organ Toxicity) - Single Exposure

##### Inhalation

May cause respiratory tract irritation.

##### Skin Absorption

Can cause effects as described for inhalation. Symptoms may include redness, rash, swelling and itching. Thermal burns from heat released when it reacts with water.

##### Ingestion

May cause irritation of the mouth, throat and stomach. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

#### STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause irritation of the respiratory system. Respiratory tract injury has been observed.

#### Respiratory and/or Skin Sensitization

Human experience shows an allergic skin reaction (skin sensitization) in rare cases following exposure at work.

#### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Portland cement		A4		

May cause cancer based on information for closely related chemicals. Known to cause: lung cancer.

#### Reproductive Toxicity

##### Development of Offspring

Conclusions cannot be drawn from the limited studies available.

##### Sexual Function and Fertility

Conclusions cannot be drawn from the limited studies available.

##### Effects on or via Lactation

No information was located.

## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

No information was located. May cause long term adverse effects in aquatic environment.

#### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Mullite (Al <sub>6</sub> O <sub>5</sub> (SiO <sub>4</sub> ) <sub>2</sub> )/kaolin blend	100 mg/L (96-hour)	100 mg/L (Selenastrum capricornutum (algae); 72-hour)		

#### Persistence and Degradability

No information was located.

#### Bioaccumulative Potential

No information was located.

#### Mobility in Soil

No information was located.

## SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

## SECTION 14. TRANSPORT INFORMATION

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Not regulated under Canadian TDG regulations.

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

This product has been classified in accordance with hazard criteria of the Controlled products regulations and this SDS contains all information required by the Controlled Products Regulations.

#### Canada

##### WHMIS 1988 Classification



Class D2A; D2B



Class E

D2A - Very Toxic (Chronic toxicity); D2B - Toxic (Skin irritant; Eye irritant); E - Corrosive

## SECTION 16. OTHER INFORMATION

<b>NFPA Rating</b>	<b>Health - 1</b>	<b>Flammability - 0</b>	<b>Instability - 0</b>
<b>SDS Prepared By</b>	BMQ SOLUTIONS		
<b>Phone No.</b>	877-276-7249		
<b>Date of Preparation</b>	avril 29, 2016		
<b>Date of Last Revision</b>	juin 30, 2016		
<b>Revision Indicators</b>	The following SDS content was changed on avril 29, 2016: Section 8 - Exposure Controls/Personal Protection; Exposure Guidelines.		
<b>Key to Abbreviations</b>	ACGIH® = American Conference of Governmental Industrial Hygienists AIHA® = AIHA® Guideline Foundation. OSHA = US Occupational Safety and Health Administration		
<b>References</b>	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).		
<b>Disclaimer</b>	We declare the information contained herein are correct. However, we decline all responsibility as to the exactness and the usage of the later.		

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