

**FLEXCEL****SECTION 1. IDENTIFICATION**

<b>Product Identifier</b>	FLEXCEL
<b>Other Means of Identification</b>	SOL-FLEXCEL
<b>Recommended Use</b>	ACCELERATOR, used to modify reactivity time of the grout.
<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 Hres/ 7 Jours CANUTEC, 613-996-6666, 24HR/7Jours
<b>SDS No.</b>	0263

**SECTION 2. HAZARD IDENTIFICATION**

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

**Label Elements**

Signal Word:

Warning

Hazard Statement(s):

Toxic in contact with skin or if inhaled.

Harmful in contact with skin.

May be harmful if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep only in original packaging.

Keep cool.

Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapours/spray.

Do not get in eyes, on skin, or on clothing.

Wash hands and skin thoroughly after handling.

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

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

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Product Identifier:	FLEXCEL
SDS No.:	0263
Date of Preparation:	juillet 01, 2016

IF INHALED: Call a POISON CENTRE/doctor/ if you feel unwell.

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

IF exposed or concerned: Get medical advice or attention.

Take off contaminated clothing and wash it before reuse.

Eliminate all ignition sources if safe to do so.

Absorb spillage to prevent material damage.

Storage:

Store in accordance with local, regional, national and international regulations.

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

Protect from sunlight.

Disposal:

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

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Dibutyl maleate	105-76-0	>52	

#### Notes

>52% Aliphatic Tertiary Amine

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor.

##### Skin Contact

Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. For severe exposures get under safety shower after having removed clothing.

A soothing ointment could be applied after washing skin seek medical attention.

##### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor.

##### Ingestion

Do not induce vomiting. Have victim drink water or milk, if conscious if vomiting is inevitable, prevent aspiration by keeping the victims head below the knee avoid mouth-to-mouth contact by using a barrier device. Immediately call a Poison Centre or doctor.

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

If inhaled and/or swallowed: can cause severe irritation of the nose and throat. Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest. Respiratory sensitizer. May cause asthma or an asthma-like reaction in some people. If on skin: may cause moderate to severe irritation. If in eyes: may cause moderate to severe irritation.

#### Immediate Medical Attention and Special Treatment

##### Target Organs

Eyes, lungs, respiratory system, skin.

##### Medical Conditions Aggravated by Exposure

Asthma, dermatitis, eye conditions, respiratory conditions, skin allergies.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

Product Identifier: FLEXCEL

SDS No.: 0263

Date of Preparation: juillet 01, 2016

Small fire: Carbon dioxide, dry chemical powder or appropriate foam. Large fire: Use foam or other suitable extinguishing agent.

### Specific Hazards Arising from the Product

May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, resulting in a fire hazard. Dusts and aerosols at sufficient concentrations may exhibit explosive characteristics if ignited by static discharge or spark.

May include but not limited to Carbon oxides.

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

Wear full Bunker gear and respiratory protection (SCBA) Approach fire from upwind to avoid hazardous vapours or gases.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Eliminate all ignition sources if safe to do so. Dike area to prevent spreading.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

### Methods and Materials for Containment and Cleaning Up

Small spills or leaks: stop or reduce leak if safe to do so. Place used absorbent into suitable, covered, labelled containers for disposal. Absorb material with earth, sand or another non-combustible product. Do not touch the spilled product. Large spills or leaks: dike and recover contaminated water for appropriate disposal.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid breathing in this product. Do not get in eyes, on skin or on clothing. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Avoid ALL unprotected contact with this product or with contaminated equipment/surfaces. Use adequate ventilation and employ respiratory protection where dust or fumes may be generated do NOT eat, drink or store food in work areas. Remove contaminated clothing and protective equipment before entering eating areas or leaving work area.

### Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated. Store in the original, labelled, shipping container. Store in a closed container.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Dibutyl maleate	Not established		Not established			

### Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Concentrations greater than TLV can occur when MDI is used in a poorly ventilated area. In such cases, or whenever concentrations of MDI exceed the TLV, respiratory protection must be worn. A supplied air respirator or a positive pressure self-contained breathing apparatus is recommended. In

situations where MDI is not sprayed or heated and a supplied air or self-contained apparatus is unavailable or its use impractical, at least an air

purifying respirator equipped with an organic cartridge and a particulate filter must be worn. However, this should be permitted only for short periods of

time (less than one hour) at relatively low concentrations (at or near the TLV). However, due to the poor warning properties of MDI, proper fit and timely

replacement of filter elements must be insured. Observe OSHA Regulations for respirator usage (29 CFR Part 1910.134). Provide eyewash and safety shower if contact or splash hazard exists.

Product Identifier: FLEXCEL  
SDS No.: 0263  
Date of Preparation: juillet 01, 2016

## Individual Protection Measures

### Eye/Face Protection

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

### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

### Respiratory Protection

When ventilation is inadequate wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Light yellow. Particle Size: Not available
Odour	Not available
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not available (melting); -22 °C (-8 °F) (freezing)
Initial Boiling Point/Range	140 °F (60 °C)
Flash Point	> 300 °F (149 °C)
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	< 0.1 mm Hg
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	0.921 at 68 °F (20 °C)
Solubility	Insoluble (less than 1 mg/L) in water; Soluble in all proportions in common organic solvents.
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); 15 centipoises at 68 °F (dynamic)
<b>Other Information</b>	
Physical State	Liquid
Molecular Formula	Not available
Molecular Weight	Not available
Bulk Density	Not available
Surface Tension	Not available
Critical Temperature	Not available
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available
Saturated Vapour Concentration	Not available

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

None known.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None known.

### Conditions to Avoid

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Product Identifier:	FLEXCEL
SDS No.:	0263
Date of Preparation:	juillet 01, 2016

None known.

#### **Incompatible Materials**

Strong oxidizing agents (e.g. perchloric acid), strong acids (e.g. hydrochloric acid).

#### **Hazardous Decomposition Products**

Very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Acute Toxicity**

<b>Chemical Name</b>	<b>LC50</b>	<b>LD50 (oral)</b>	<b>LD50 (dermal)</b>
Dibutyl maleate	< 5000 mg/m <sup>3</sup> (rat) (4-hour exposure)	3730 mg/m <sup>3</sup> (rat)	10010 mg/kg (rabbit)

### **Skin Corrosion/Irritation**

May cause moderate or severe irritation based on information for closely related materials. Symptoms include pain, redness, and swelling.

### **Serious Eye Damage/Irritation**

May cause serious eye irritation based on information for closely related materials. The vapour also irritates the eyes. May cause cornea damage or blindness.

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

#### **Inhalation**

May cause respiratory tract irritation.

#### **Skin Absorption**

Can cause sensitization symptoms may include redness, rash, swelling and itching.

#### **Ingestion**

Severe irritation or burns to the mouth, throat and stomach. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

### **Respiratory and/or Skin Sensitization**

Respiratory sensitizer. May cause severe asthma-like symptoms (respiratory sensitization) based on information for closely related chemicals. Skin sensitizer. May cause an allergic reaction (skin sensitization) based on limited evidence.

## **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

May cause long term adverse effects in aquatic environment.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal Methods**

Dispose of contents and container in accordance with local, regional, national and international regulations. Do not dispose into drains, waterways or sewers.

## **SECTION 14. TRANSPORT INFORMATION**

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**

Product is included on DSL(INVENTORY).

Product Identifier: FLEXCEL  
SDS No.: 0263  
Date of Preparation: juillet 01, 2016

## SECTION 16. OTHER INFORMATION

<b>NFPA Rating</b>	<b>Health - 3</b>	<b>Flammability - 1</b>	<b>Instability - 0</b>
<b>SDS Prepared By</b>	BMQ SOLUTIONS		
<b>Phone No.</b>	877-267-7249		
<b>Date of Preparation</b>	juillet 01, 2016		
<b>Date of Last Revision</b>	juillet 01, 2016		
<b>Key to Abbreviations</b>	ACGIH® = American Conference of Governmental Industrial Hygienists AIHA® = AIHA® Guideline Foundation. IARC = International Agency for Research on Cancer NFPA = National Fire Prevention Association NIOSH = National Institute for Occupational Safety and Health NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration		
<b>References</b>	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from 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.		