



MATERIAL SAFETY DATA SHEET

Silica Fume

SECTION 1 PRODUCT IDENTIFICATION AND USE

Product identification: Silica Fume			
PIN/ UN No: N/AV		MSDS Number: 3009	
Molecular Weight: N/AV			
Chemical Name: Silicon Dioxide			
Chemical Family: Amorphous Silica		Chemical Formula: SiO₂	
Pest Control Product (PCP #) : N/AV		Stock Number: N/AV	
Product Group: Pozzolan			
Product Use: Pozzolan		Synonyms: Fume, Densified Silica Fume, Silica Fumes, Microsilica	
WHMIS Classification: D2 E		Means of Classification: CLASS. BY MANUFACTURER	
Manufacturers Name: Becancour Silicon Inc.		Suppliers Name: Basalite Concrete Products Vancouver, ULC.	
Street Address: 6500 Yvon-Trudeau		Street Address: 1280 West 77th Avenue	
City: Becancour		Province: Quebec	
City: Vancouver		Province: BC	
Postal Code: G0X 1B0		Emergency Telephone No.	
(819) 294-6000 ext.249		Postal Code: V6P 3G8	
		Emergency Telephone No.	
		604 – 269 – 2120	

SECTION 2 HAZARDOUS INGREDIENTS

Hazardous Ingredients	% Ratio	CAS Number: PIN Number:	Exposure Limits:	LD ₅₀ /LC ₅₀
Silica Fume	60 – 100 W/W	69012-64-2	2 mg respirable dust/m³	Unknown
Magnesium Oxide (MgO)	1 – 5 W/W	1309-48-4	10 mg total dust/m³	Unknown
Iron Oxide (Fe₂O₂)	1 - 5 W/W	1309-37-1	5 mg respirable dust/m³	Unknown

SECTION 3 PHYSICAL DATA

Odour & Appearance: Light to medium gray powder.			
Physical State: SOLID (powder)		Odour Threshold: No distinct odour,	
Freezing Point (°C): N/AP		Boiling Point (°C): 2230	
Vapour pressure (mm Hg): N/AP		Vapour Density (Air=1): N/AP	
Percent Volatile: N/AP		Evaporation Rate: N/AP	
pH: 6-9		Specific Gravity: 2.2	
Coeff. Water/ Oil Distribution: N/AP		Percent Soluble: Slight	



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SECTION 4 FIRE AND EXPLOSION DATA

Flammability: N/AP	If yes, under which conditions? N/AP	
Extinguishing Media: N/AP		
Special Fire Fighting Procedures: N/AP		
Unusual Fire and Explosion Hazards: N/AP		Auto-Ignition temperature (°C): N/AP
Flashpoint (°C) and method: N/AP	Upper flammability limit (% by volume): N/AP	Lower flammability limit (% by volume): N/AP
Hazardous Combustion Products: N/AP		
Explosion data: Sensitivity to impact: N/AP		Sensitivity to static discharge: N/AP

SECTION 5 REACTIVITY DATA

Chemical stability: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	If no, under which conditions? N/AP
Incompatibility with other substances: N/AP	If so, which ones? N/AP
Reactivity, and under what conditions: Silica fume is soluble in hydrofluoric acid. With fluorine, oxygen fluoride and chlorine trifluoride, this product will cause a fire.	
Hazardous polymerization: N/AP	
Hazardous decomposition products: None. Silica Fume is inert under normal conditions of temperature and pressure. When heated at 930 C for 16 hours, amorphous silica will transform to quartz, a crystalline structure of silica.	

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 checked="" type="checkbox"/>	Ingestion: <input checked="" type="checkbox"/>
Effects of acute exposure to product: EYES: Can irritate eyes. SKIN: Can dry skin. INHALATION: Irritating to nose & throat.				
Effects of chronic exposure to product: Coughing, sneezing and/or eye irritation.				
Exposure Limits:				



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TWA: **2 mg/ m³**

Other: **The TWA is for Silica Fume in the air.**

STEL: **N/AV**

C: **N/AV**

OSHA PEL: **N/AV**

ACGIH TLV: **N/AV**

Carcinogen by NTP: **N/AV**

Carcinogen by IARC: **N/AV**

OSHA Controlled: **N/AV**

Irritancy:

EYES: Can irritate the eyes.

SKIN: Can dry the skin and cause rashes.

INHALATION: Can irritate the nose & throat.

Sensitization: **Some people might develop a skin rash (Allergic Dermatitis).**

Carcinogenicity: **N/AV**

Teratogenicity: **N/AV**

Reproductive Toxicity: **N/AV**

Mutagenicity: **N/AV**

Synergistic Products: **N/AV**

Medical Conditions Aggravated by Exposure: **May aggravate open sores or dermatitis. Fine dust may aggravate asthma and other breathing conditions.**

SECTION 7 PREVENTATIVE MEASURES

Personal Protective Equipment:

Gloves (specify): **Rubber or PVC when the mix is wet.**

Respirator (specify) **NIOSH/MSHA approved Dust Mask, when the mix is dry.**

Eye (specify) **Tight-fitting goggles**

Footwear (specify): **Boots, that will not soak up the wet mix and will keep out wet or dry mix.**

Clothing (specify) **That will keep the powder or the wet mix off skin & clothes.**

Other (specify) **Barrier creams should be applied PRIOR TO contact with the product. Wash with soap and water after working with cement-containing products.**

Engineering controls: **VENTILATION: Local exhaust to control airborne dust levels below 2 mg/m³ TWA**

Leak & Spill Procedures: **AVOID BREATHING DUST. Use dry cleanup methods that do not send dust into the air.**

Waste Disposal: **Dispose of as common waste in accordance with applicable Federal, Provincial and local environmental regulations.**

Handling Procedures and Equipment: **No special handling equipment needed other than personal protective equipment.**

Storage Requirements: **Keep dry until mixed.**

Special Shipping Information: **Keep dry.**



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SECTION 8 FIRST AID MEASURES

Specific Measures:

EYES: Flush with water for at least 15 minutes. Consult physician immediately.

SKIN: Wash with soap and water. If skin is burned, see doctor.

INHALATION: Move person to fresh air. Seek medical advice.

INGESTION: Drink copious amounts of water. Do not induce vomiting. Seek immediate medical attention.

SECTION 9 PREPARATION DATE OF MSDS

Prepared By: (Group, Department, Etc.)

Rocky D. Pantiluk, A.Sc.T.

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V6P 3G8

Phone Number:

604 - 269 - 2120

Date: 06 / 06 / 12

(yr / mm / dd)

Workplace MSDS Transcribed by:

Laura Voci

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