

## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION

<b>Manufacturer:</b>	Arriscraft	<b>Product Name:</b>	Calcium Silicate Masonry Unit
	875 Speedsville Road	<b>Product Use:</b>	Masonry Unit
	PO Box 3190		
	Cambridge, ON N3H 4S8		
<b>Emergency Info:</b>	(519) 653-3275		

### SECTION 2: HAZARD(S) IDENTIFICATION

**Free Silica (SiO<sub>2</sub>):** Released from product only upon dust-producing finishing operations.

CAS#: 14808-60-7 (Quartz), CAS# 14464-46-1 (Cristobalite)

**Effects of Chronic Exposure to Product:** Long term exposure to respirable, crystalline, silica generated in small amounts during shaping operations (sawing, sanding) may lead to silicosis. The International Agency for Research on Cancer (IARC) has evaluated in **Volume 68, Monographs on the Evaluation of the Carcinogenicity Risk of Chemicals to Humans, Silica (1997)**, crystalline silica inhaled in the form of quartz or cristobalite from occupational sources *is carcinogenic to humans (Group 1)*.



**Exposure Limits:**

TWAE Respirable, Crystalline Silica: 0.10 mg/m<sup>3</sup>

Evidence of Reproductive Toxicity, Teratogenicity or Mutagenicity: NA

Evidence of Carcinogenicity: IARC Monographs, Group I

Irritancy to Product: NA

Synergistic Products: NA

Sensitivity to Products: NA

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

MINERAL	% BY VOLUME
Calcite	20
Dolomite	20
Albite	22
Quartz Silica	23
Microcline	9

### SECTION 4: FIRST-AID MEASURES

**Inhalation:** Dusts may irritate the nose, throat and respiratory tract by mechanical abrasion

ACGIH and OSHA have determined that adverse effects to respirable quartz silica are not likely to occur in the workplace provided exposure levels do not exceed the appropriate TLVs / PELs. However, because of the wide variation in individual susceptibility, lower exposure limits may be appropriate for some individuals, including persons with pre-existing medical conditions.

**Exposure Limits:** TWAE Respirable, Crystalline Silica: 0.10 mg / m<sup>3</sup>

**Ingestion:** Ingestion of large amounts may cause gastrointestinal irritation and blockage.

**Eye:** Direct contact with dust may cause irritation by mechanical abrasion.

**Skin:** Not expected to be a significant exposure route.

**SECTION 5: FIRE FIGHTING MEASURES**

<b>Conditions of Flammability:</b>	Non-flammable	Means of Extinction:	NA
<b>Explosion Data:</b>	Sensitivity to Mechanical Impact:	Sensitivity to Static Discharge:	NA
	Flashpoint:	Upper Flammable Limit %:	NA
	Auto Ignition Temperature:	Lower Flammable Limit %:	NA
		Hazardous Combustion Products:	NA

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Normal clean-up with shovel, scoop or broom  
 This material is classed as a non-hazardous solid waste for disposal      Waste Disposal: Landfill

**SECTION 7: HANDLING AND STORAGE**

Storage Requirements: No Special Requirements  
 Handling Procedures and Equipment: Heavy material – proper lifting methods or equipment

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Gloves:</b>	To protect from bruises and scrapes
<b>Respiratory Protection:</b>	Approved dust mask is required for some finishing operation such as sawing or sanding where dust is create. N95 or P100 filters required
<b>Eye and Face:</b>	Safety glasses or goggles when splitting or chipping
<b>Footwear:</b>	Steel toe footwear recommended
<b>Engineering Controls:</b>	Use a wet sawing operation, if possible. Ensure adequate ventilation during any finishing operations.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: NA	Freezing Point: NA	Specific Gravity: 2.06
Vapor Pressure: NA	Vapor Density: NA	pH: NA
Percent Volatile: NA	Physical State: Solid	Conditions of Reactivity: NA
Odour Threshold: NA	Stability: Stable	Evaporation Rate: NA
Hazardous Decomposition: None	Co-efficient of Water / Oil Distribution: NA	
Appearance & Odour: Sandstone, No Odour	Incompatible Materials: Muriatic Acid, De-icing Compounds	

**SECTION 10: STABILITY AND REACTIVITY**

Stability: STABLE	Incompatibility (Materials to Avoid): None
Conditions to avoid: None	Hazardous Decomposition or By-products: None
Hazardous Polymerization: Will Not Occur	

**SECTION 11: TOXICOLOGICAL INFORMATION**

**WARNING:** Dry sawing or grinding of masonry products may result in the release of dust particles (respirable crystalline quartz) which could cause minor eye or nose irritation if proper protective equipment is not in place. Failure to use appropriate respiratory protection when exposed to airborne respirable crystalline quartz for prolonged periods of time may cause delayed (chronic) lung injury (silicosis). Limited evidence is also available which suggest that respirable crystalline quartz may pose a carcinogenic threat to humans.

**SECTION 12: ECOLOGICAL INFORMATION**

Non-toxic product not expected to create adverse environmental effects.

**SECTION 13: DISPOSAL CONSIDERATIONS**

No special disposal requirements

**SECTION 14: TRANSPORT INFORMATION**

Ensure material is properly secured before transporting. No special transporting requirements.

**SECTION 15: REGULATORY INFORMATION**

**Canada**

Occupational Health and Safety Act

R.R.O 1990, Regulation 845 – Designated Substance Silica

**U.S.A.**

Occupational Safety and Health Administration

29 CFR 1926.55 – Gases, vapors, fumes, dust and mists

**SECTION 16: OTHER INFORMATION**

This SDS reflects the most recent, significant information in our possession. The OSHA Standard requires that all personnel be provided with accurate information on the hazards of the chemical they handle and be trained in proper work practices to minimize the risks from the hazards.

The SDS should not be construed as the sum total of all protective measures that may be taken. It is the responsibility of the employer to evaluate the information and to determine the extent of the hazard and what personal protective measures should be taken. The information contained herein is based on data considered accurate; however, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

If we may be of further assistance, please do not hesitate to contact us.