SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Manufacturer: Arriscraft
875 Speedsville Road
PO Box 3190
Cambridge, ON N3H 4S8
Emergency Info: (519) 653-3275

Product Name: Cast Stone
Product Use: Building Stone

SECTION 2: HAZARD(S) IDENTIFICATION

Free Silica (SiO_2): 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^3
TWAE Respirable, Portland Cement: 10 mg/m^3

Evidence of Reproductive Toxicity, Teratogenicity or Mutagenicity: NA
Evidence of Carcinogenity: IARC Monographs, Group I
Irritancy to Product: NA Synergitic 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^3
TWAE Respirable, Portland Cement: 10 mg / m^3

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.

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SECTION 5: FIRE FIGHTING MEASURES

Conditions of Flammability: Non-flammable — Means of Extinction: NA

Explosion Data: Sensitivity to Mechanical Impact: NA — Sensitivity to Static Discharge: NA

Flashpoint: NA — Upper Flammable Limit %: NA

Lower Flammable Limit %: NA

Auto Ignition Temperature: 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

Gloves: To protect from bruises and scrapes

Respiratory Protection: Approved dust mask is required for some finishing operation such as sawing or sanding where dust is create. N95 or P100 filters required

Eye and Face: Safety glasses or goggles when splitting or chipping

Footwear: Steel toe footwear recommended

Engineering Controls: 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.

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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.

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