# Material Safety Data Sheets (MSDS)

## Section 1 – Product Identification

**Company Identification** ..... Alliance Designer Products Inc.
225 Blvd. Bellerose West
Laval, Quebec, Canada H7L 6A1

**24 hour Emergency Phone** ..... CHEMTREC – 1 800 424-9300

**Chemical Family** ..... Silica

**Product Use** ..... CASTINGS

**Hazard Rating**

- **Health** ..... 1
- **Fire** ..... 0
- **Reactivity** ..... 0

## Section 2 – Composition – Ingredients Information

| Ingredient | CAS # | % | Exposure Limit | $LD_{50}$ | $LC_{50}$ |
|---|---|---|---|---|---|
| Crystalline Silica (Quartz) | 14808-60-7 | Min 94 | 0.05 mg/m$^3$ TWA ACGIH | Not available | Not available |

Balance of ingredients are non-hazardous

## Section 3 – Hazard Identification

**Description** ..... Buff (beige) colored granules, Slight odor.

**Hazards** ..... **WARNING! HARMFUL IF INHALED, OVEREXPOSURE MAY CAUSE LUNG DAMAGE, MAY CAUSE EYE IRRITATION. INHALATION CANCER HAZARD. CONTAINS QUARTZ WHICH CAN CAUSE CANCER.**
Risk of cancer depends upon duration and level of exposure.

**Precautions** ..... Avoid breathing dust, contact with skin and eyes.

**Primary Routes of Entry** ..... Eye, Inhalation, Skin Contact.

**Signs and Symptoms of Exposure** ..... Inhalation of quartz is classified as a human carcinogen. Chronic Exposure can cause sillicosis, a form of lung scaring that can cause Shortness of breath, reduced lung fonction, and in severe cases, death. Inhalation may increase the progression of tuberculosis, susceptibility is apparently not increased. Persons with impaired respiratory fonction may be more susceptible ot the effects of this substance. Smoking can increase the risk of lung injury.

**Target Organs** ..... Lungs

## Section 4 – First-aid Measures

**Ingestion** …… Get immediate medical attention.
Never give anything by mouth to an unconscious person.
Dilute with water. Keep patient warm and calm.
Induce vomiting only on the instructions of a health care professional.

**Skin** …… Remove contaminated clothing.
Rinse thoroughly with plenty of water.
If irritation occurs or persists consult a doctor.

**Inhalation** …… Remove victim to fresh air. If breathing is difficult or has stopped, a properly trained person should adminster oxygen or artificial respiration.
Get immediate medical attention.

**Eyes** …… Immediately flush eyes with plenty of water, holding eyelids apart during flushing.
Obtain immediate medical attention.

**In case of overexposure – Always bring a copy of the product MSDS to the Doctor.**

## Section 5 – Fire Fighting Measures

**Flash Point (°C)** …… Not applicable
**Flash Point Test Method** …… Not applicable
**Explosion Limits** …… Not applicable
**Fire and Explosion Hazards** …… None
**Fire Fighting Instructions** …… Wear self-contained breathing apparatus and full bunker gear.
**Extinguishing Media** …… Not required
**Hazardous Combustion Products** …… None

## Section 6 – Accidental Release Measures

**Spill and Leak** …… Avoid generating dust. Wear respiratory protection. Sweep up or Vaccuum and place in properly identified container.

## Section 7 – Handling and Storage Procedures

**Handling Instructions** …… Avoid skin and eye contact. Avoid generation dust. DO NOT BREATHE DUST. Maintain good personal hygiene and wash Thoroughly after handling, especially before eating, drinking or smoking. Wash contaminated clothing before reuse.

**Storage Measures** …… Store in a cool, dry and well-ventilated area. Store away from heat Sources or open flames. Store away from incompatible materials. Keep containers tighly closed when not in use.

## Section 8 – Exposure Control / Personal Protection

**Skin Protection** …… Wear protective gloves and long sleeve shirts to prevent skin contact.
**Eye Protection** …… Wear safety goggles.
**Respiratory Protection** …… In poorly ventilated areas or if the exposure limits discribed in section 2 Are likely to be exceeded then wear a high efficiency particulate Respirator (NIOSH type N100 filter).
**Engineering Controls** …… Adequate local exhaust ventilation at point of emission.

## Section 9 – Physical an Chemical Properties

| | | |
|---|---|---|
| **Physical State** | …… | Solid (Powder) |
| **Colour** | …… | Beige |
| **Odour** | …… | None |
| **Odour Threshold** | …… | None |
| **Solubility in Water** | …… | Insoluble |
| **Vapour Pressure** | …… | Not applicable |
| **Evaporation Rate** | …… | Not applicable |
| **Vapour Density** | …… | No data |
| **Specific Gravity** | …… | 2.65 |
| **Boiling Point (°C)** | …… | $2230^0$ |
| **Freezing/Melting Point (°C)** | …… | $1710^0$ |
| **pH** | …… | No data |
| **Volatiles (%)** | …… | <1.0 |
| **Coefficient Water/Oil** | …… | No data |

## Section 10 – Stability and Reactivity Information

| | | |
|---|---|---|
| **Conditions to Avoid** | …… | Exposure to excessive heat. |
| **Material to Avoid** | …… | Strong alkalis, hydrofluoric acid, powerful oxidizers, and fluorine Containing compounds. |
| **Stability** | …… | Product is stable in non-emergency conditions. |
| **Hazardous Polymerization** | …… | Will not occur. |
| **Hazardous Products of Decomposition** | …… | Will not occur. |

## Section 11 – Toxicological Information

| | | |
|---|---|---|
| **$LD_{50}$ (species/route)** | …… | 266 000 mg/kg rat |
| **$LC_{50}$ (species/duration)** | …… | 50 000 mg/m$^3$ rat (96 hours) |
| **Exposure Limits** | …… | See Section 2 |
| **Irritance** | …… | Mild |
| **Sensitization** | …… | None reported |
| **Carcinogenicity** | …… | No potential occupational carcinogen.<br>IARC Category 1 Carcinogen<br>NTP!: Yes |
| **Reproductive Effects** | …… | No reported |
| **Teratogenicity** | …… | No reported |
| **Mutagenicity** | …… | No reported |
| **Synergistic** | …… | No reported |

## Section 12 – Ecological Information

| | | |
|---|---|---|
| **Environmental Fate** | …… | No data at this time |

## Section 13 – Disposal Instructions

| | | |
|---|---|---|
| **Waste Disposal Method** | …… | Dispose in a manner consistent with local, regional, provincial and/or Federal regulations. |

## Section 14 – Transport Information

| | | |
|---|---|---|
| **Proper Shipping Name** | …… | Not regulated |
| **UN #** | …… | Not applicable |
| **Class(es)** | …… | Not applicable |
| **Packaging Group** | …… | Not applicable |
| **Other information** | …… | None |
| **Transport Emergency** | …… | In the event of a transport emergency contact CHEMTREC at 1 800 424-9300. |

## Section 15 – Regulatory Information

| | | |
|---|---|---|
| **WHMIS Classification** | …… | Not controlled |
| **CEPA Status** | …… | Appears on the DSL |
| **TSCA** | …… | Appears on the TSCA Inventory |
| **Other** | …… | This product is know to the State of California to cause cancer. |

## Section 16 – Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsability of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

## Section 17 – Other Information

**MSDS #** 2003-01 **Revision #** 2 **Revision Date** February 2005