

# MATERIALS SAFETY DATA SHEET

## SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: ALU-MIC 1000  
PRODUCT USE: Alumina Powder 0.1 micron

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DISTRIBUTOR'S NAME: MICRO STAR 2000 INC.  
DISTRIBUTOR'S ADDRESS: 225 Bradwick Drive, Unit 21  
Concord, Ontario  
L4K 1K7

EMERGENCY PHONE NUMBER: 905-660-1754

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NUMBER	HAZARD CLASSIFICATION
Aluminum Oxide, Al <sub>2</sub> O <sub>3</sub>	1344-28-1	Non hazardous as defined by the Dept of Transportation, nor is it a good as defined by ICAO for air transportation.  PEL: 10mg/m <sup>3</sup> TLV: 10mg/m <sup>3</sup>

WHMIS: Not controlled under WHMIS (Canada)

## SECTION 3 – HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Not listed as a carcinogen by IARC, NTP, or OSHA. May cause slight irritation to skin, eyes and respiratory tract.

**POTENTIAL HEALTH EFFECTS:**

**EYES:** Slightly irritating, high concentrations can cause conjunctivitis, not corrosive.

**SKIN:** Not expected to be a skin irritant. Prolonged or repeated exposure may cause dermatitis and defatting.

**INGESTION:** Not expected to be toxic by ingestion.

**INHALATION:** Spray mist or dry may cause congestion, coughing, granuloma in lungs.

## SECTION 4 – FIRST AID MEASURES

**EYE CONTACT:** In case of contact with eyes, rinse immediately with plenty of water for 15 minutes. If irritation persists, seek medical advice.

**SKIN CONTACT:** Wash affected area with a waterless hand cleaner and/or soap and water. If irritation persists, consult a physician.

**INGESTION:** If material is swallowed no ill effects expected. If discomfort or pain arises after ingestion, consult a physician.

**INHALATION:** If inhaled, immediately remove the affected person to fresh air. If discomfort persists, seek medical attention.

## SECTION 5 – FIRE FIGHTING MEASURES

<b>FLASH POINT:</b>	N/A
<b>UPPER FLAMMABLE LIMITE (UFL):</b>	N/A
<b>AUTO IGNITION:</b>	N/A
<b>RATE OF BURNING:</b>	N/A
<b>GENERAL FIRE HAZARD:</b>	Product is non-combustible.
<b>HAZARD COMBUSTION PRODUCTS:</b>	None
<b>EXTINGUISHING MEDIA:</b>	Dry chemical, foam, carbon dioxide (CO <sub>2</sub> ), water fog
<b>FLAMMABILITY CLASSIFICATION:</b>	None Flammable
<b>FIRE FIGHTING EQUIPMENT / INSTRUCTIONS:</b>	Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>CONTAINMENT PROCEDURES:</b>	Stop the flow of material, if this is without risk
<b>CLEAN-UP PROCEDURES:</b>	Wear appropriate protective equipment and clothing during clean up. Absorb spill with inert material. Shovel material into appropriate container for disposal.
<b>EVACUATION PROCEDURES:</b>	Isolate area. Keep unnecessary personnel away.
<b>SPECIAL PROCEDURES:</b>	No information available for the product.

## SECTION 7 – HANDLING AND STORAGE

<b>HANDLING PROCEDURES:</b>	Avoid contact with skin and eyes. Observe food industrial hygiene practices and wash thoroughly after handling.
<b>TECHNICAL MEASURES:</b>	Wok practice should minimize contact
<b>TECHNICAL PRECAUTIONS:</b>	Local exhaust is recommended
<b>STORAGE PROCEDUARES:</b>	Store in tightly closed original container away from incompatible materials.

## SECTION 8 – ENGINEERING CONTROL / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

<b>EYES/FACE:</b>	Wear safety glasses, chemical goggles, or, a full-face shield.
<b>SKIN:</b>	Use impervious gloves. Use of impervious apron and boots are recommended
<b>RESPIRATORY:</b>	Appropriate NIOSH / MSHA respiratory protection must be provided.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** White Powder  
**ODOR:** None  
**Ph:** N/A  
**PHYSICAL STATE:** Solid  
**MELTING POINT:** 3720°F (2050°C)  
**BOILING POINT:** 5391°F (2977°C)  
**FLASH POINT:** N/A  
**SOLUBILITY (H<sub>2</sub>O):** Insoluble  
**VISONCITY:** N/A

## SECTION 10 – STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** This is a stable material.  
**CONDITIONS TO AVOID:** None specific  
**INCOMPATIBILITY:** Hazardous reactions occur when this product is involved with chlorine trifluoride or ethylene oxide. Chemical relations occur when this product is involved with strong acids and / or strong bases.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** None specific

## SECTION 11 – TOXICOLOGICAL INFORMATION

**INHALATION:** Not relevant at normal room temperatures.  
**SKIN CONTACT:** Prolonged contact may cause redness and irritation  
**EYE CONTACT:** May cause temporary eye irritation.  
**INGESTION:** No harmful effects expected in amounts likely to be ingested by accident.

## SECTION 12 – ECOLOGICAL INFORMATION

**MOBILITY:** This product is not soluble in water.  
**DEGRADABILITY:** The degradability of the product has not been stated.  
**ECOTOXICITY:** The product is not expected to be hazardous to the environment.

## SECTION 13 – DISPOSAL CONSIDERATIONS

**ENVIRONMENTAL TOXICITY DATA:** See regulatory information below.  
**WASTE DISPOSAL METHOD:** In accordance with all local, state, and federal regulations.  
**CONTAINER DISPOSAL:** In accordance withy all local, state, and federal regulations.

## SECTION 14 – TRANSPORTATION INFORMATION

This product is not regulated as hazardous by the Department of Transportation or IATA

## SECTION 15 – REGULATORY INFORMATION

**PRECAUTIONARY LABEL:** None needed

## SECTION 16 – OTHER INFORMATION

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## SECTION 17 – PREPARATION OF MATERIAL SAFETY DATA SHEET

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