

# MATERIALS SAFETY DATA SHEET

## SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: ALU-POL 2000 Colloidal Alumina 15 15 21 / 15 15 22  
PRODUCT USE: Alumina Permanent Suspension  
DISTRIBUTOR'S NAME: MICRO STAR 2000 INC. EMERGENCY PHONE NUMBER: 905-660-1754  
DISTRIBUTOR'S ADDRESS: 225 Bradwick Drive, Unit 21  
Concord, Ontario  
L4K 1K7

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Mixture of: Water and Abrasives

COMPONENT	CASE NUMBER	HAZARD CLASSIFICATION
Aluminum Oxide, Al <sub>2</sub> O <sub>3</sub>	1344-28-1	PEL:15mg/m <sup>3</sup> TLV:10mg/m <sup>3</sup> Non hazardous as defined by the Dept of Transportation, nor is it a dangerous good as defined by ICAO for air transportation
Deionized Water	7732-18-5	N/A

**WHMIS:** Not controlled under WHMIS (Canada)

## SECTION 3 – HAZARDS IDENTIFICATION

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

### POTENTIAL HEALTH EFFECTS

**EYE:** Slightly irritating, high concentrations can cause conjunctivitis, not corrosive.  
**SKIN:** Not absorbed through skin. Prolonged or repeated contact may cause dermatitis.  
**INGESTION:** May cause irritation of the digestive tract.  
**INHALATION:** Spray mist or dry dust may cause congestion, coughing, granuloma in lungs. Prolonged inhalation or overexposure to dusts may cause irreversible lung damage

## 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, consult a physician.  
**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, get immediate medical attention or advice. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.  
**INHALATION:** If inhaled, immediately remove the affected person to fresh air. Seek medical attention.

## SECTION 5 – FIRE FIGHTING MEASURES

<b>FLASH POINT:</b>	N/A
<b>UPPER FLAMMABLE LIMIT (UFL):</b>	N/A
<b>AUTO IGNITION:</b>	N/A
<b>RATE OF BURNING:</b>	N/A
<b>GENERAL FIRE HAZARDS:</b>	Product is non-combustible
<b>HAZARDOUS COMBUSTION PRODCUTS:</b>	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO),
<b>EXTINGUISHING MEDIA:</b>	Dry chemical, foam, carbon dioxide (CO <sub>2</sub> ), water fog
<b>FLAMMABILITY CLASSIFICATION:</b>	Non-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 good industrial hygiene practices and wash thoroughly after handling.
<b>TECHNICAL MEASURES:</b>	Work practice should minimize contact.
<b>TECHNICAL PRECAUTIONS:</b>	Local exhaust is recommended.
<b>STORAGE PROCEDURES:</b>	Store in tightly closed original container in a cool, well-ventilated place away from incompatible materials. Keep from freezing.

## 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 of impervious gloves. Use of impervious apron and boots are recommended.
<b>RESPIRATORY:</b>	If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH / MSHA respiratory protection must be provided.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	White
<b>ODOR:</b>	None
<b>Ph:</b>	-4
<b>PHYSICAL STATE:</b>	Liquid
<b>MELTING POINT:</b>	32° F (0°C)
<b>BOILING POINT:</b>	212°F (100°C)
<b>FLASH POINT:</b>	N/A
<b>SOLUBILITY (H2O):</b>	Dispersible
<b>VISCOSITY:</b>	Low to Medium

## SECTION 10 – STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>	This is a stable material.
<b>CONDITIONS TO AVOID:</b>	None specific
<b>INCOMPATIBILITY:</b>	None specific
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	None specific

## SECTION 11 – TOXICOLOGICAL INFORMATION

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

## SECTION 12 – ECOLOGICAL INFORMATION

<b>MOBILITY:</b>	This product is water soluble and may spread in water systems.
<b>DEGRADABILITY:</b>	The degradability of the product has not been stated
<b>ECOTOXICITY:</b>	The product is not expected to be hazardous to the environment.

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### 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 with all local, state, and federal regulations.

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### SECTION 14 – TRANSPORTATION INFORMATION

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

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### SECTION 15 – REGULATORY INFORMATION

**Precautionary Label:** Do not freeze

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### SECTION 16 – OTHER INFORMATION

All statements, technical information and recommendations contained herein are based on tests and data which this company believes to be currently reliable, however, the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under nor a recommendation to practice or infringe any patent of this company or others covering any process, composition or matter or use. Since the company shall have no control of the use of the product described herein, the company assumes no liability for loss or damage incurred from the proper use of such product. The company assumes no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose.

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### SECTION 17– PREPARATION OF MATERIAL SAFETY DATA SHEET

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