MATERIALS SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: ALU-MIC C 15 13 11 / 15 13 12
PRODUCT USE: Alumina Powder

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

HAZARDOUS INGREDIENTS	HAZARDOUS PERCENT	CAS NUMBER
Aluminum Oxide, Al_20_3	100%	1344-28-1
OSHA PEL	10 ppm	
ACGIH TLV	10 ppm	

WHMIS: Not controlled under WHMIS (Canada)

OTHER: This product is classified as a nuisance dust. Contains no chemicals subject to 302 or 313 reporting. This product is not a hazardous material or hazardous substance defined by the Department of Transportation nor, is it a dangerous good as defined by ICAO for air transport.

SECTION 3 – FIRST AID MEASURES

EYE CONTACT: Flush affected eye(s) with clean water. If irritation or redness develops, seek medical attention

CONTACT: Remove contaminated clothing and flush affected areas(s) with large quantities of clean water. If irritation or redness develops and persists, seek medical attention.

INHALATION: Remove to fresh air. Get medical attention if irritation of nose or throat persists.

INGESTION: If victim is conscious, give at least 2 glasses of milk and induce vomiting.

SECTION 4 – FIRE FIGHTING MEASURES

FIRE FIGHTING PROCEDURES: None-Flammable Material

NON FLAMIBILITY: CLASSIFICATION: Not Regulated

EXTINGUISHING MEDIA: Dry chemical, foam, carbon dioxide (CO^2), water fog

EXPLOSTION DATA: This is an inert material and will not product a dust explosion

SECTION 5 – REACTIVITY DATA

CONDITIONS TO AVOID: Temperatures above 210 degrees F.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidants, e.g. Hydrochlorite
Incompatible with hot chlorinated rubber

HAZARDOUS DECOMPOSTION PRODUCTS: Oxides of nitrogen at temperatures above 500 degrees F.

CHEMICAL STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

EYE EFFECTS: Contact with eyes may be abrasive and irritating, causing burning, tearing, and redness. Obtain medical help if burning and redness persist.

SKIN EFFECTS: Contact with broken skin may be severely irritating and result in redness, burning, swelling, and skin damage.

ACUTE EFFECTS: Breathing of dust may cause cough, mucous production, and shortness of breath. Remove victim to fresh air at once. Obtain medical help if breathing difficulty persists.

SECTION 6 – HANDLING AND STORAGE

HANDLING: Store in cool, dry area in tightly closed containers.
Avoid direct sunlight during prolonged storage.

LEAK AND SPILL PROCEDURS: Sweep, scoop or vacuum and remove.

SECTION 7 – ENGINEERING CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

PROTECTIVE GLOVES: The use of protective gloves impermeable to the specific material handled is advised to prevent skin contact and possible irritation.

EYE PROTECTION: Chemical splash goggles.

RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator where dust may occur.
If airborne concentration exceed recommended exposure limits, a suitable filter-type dust respirator should be worn. (See Section I)

WORK HYGIENIC PRACTICES: Wash thoroughly after handling.

VENTILATION: MECHANICAL-Adequate ventilation to reduce levels of air contaminant
below that which may cause personnel injury or illness.
If current ventilation practices are not adequate in maintaining airborne concentrations below established exposure limits. (See Section I), additional ventilation or exhaust systems may be required.

OTHER PROTECTIVE EQUIPMENT: It is recommended that a source of clean water be available in the work area for flushing eyes and skin

SECTION 8 – PHYSICAL DATA

MELTING POINT	2050 ºC
VAPOR PRESSURE	1 mm at 2158 ºC
EVAPORATION RATE	N/A
PERCENT VOLATILE	N/A
SOLUBILITY IN WATER	None
SPECIFIC GRAVITY	3.98
APPEARANCE AND ODOR	White Powder

SECTION 9 – TOXICOLOGICAL PROPERTIES

SKIN CONTACT: Acute overexposure causes skin irritation

INHALATION: May cause physical irritation to upper respiratory tract. This material is a nuisance dust and as such does not produce significant organic disease or toxic effect with reasonable exposure.

SKIN ABSORBTION: N.A.P.

INGESTION: No hazard under normal circumstances

EYE CONTACT: May cause eye irritation

EXPOSURE LIMITS: 1985-86 ACGIH classifies alumina as a nuisance dust. See SECTION II.

CARCINOGENCITY: Not listed as a carcinogen by IARC, NTP or OSHA.

TOXICITY DATA: This specific material has not been tested. Data on similar materials as follows:
Rabbit skin LD50: 4g/kg. Rabbit skin irritation index: 0.2 (max. score possible is 8.0)
Rabbit eye irritation index: 6 (max. score possible is 110)
Inhalation: Rats survived exposure to a concentration of 83 mg/l for 1 hour.
Ingestion: Acute oral LD50 in rats: 20 g/kg.

SECTION 10 – DISPOSAL CONSIDERATION

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.

SECTION 11 – PREPARATION OF MATERIAL SAFETY DATA SHEET

PREPARED BY: R. Dickertmann PHONE NUMBER: 905-660-1754 REVISED: July 24, 2008