

# MATERIALS SAFETY DATA SHEET

## SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: ALUMINUM OXIDE 15 13 21 / 15 13 22  
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 <sub>2</sub> O <sub>3</sub>	90-100	1344-28-1
Titania T10 <sup>2</sup>	04	13463-67-7

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.

WHMIS : Not controlled by WHMIS (Canada)

## SECTION 3 – FIRST AID MEASURES

**INHALATION:** Remove to fresh air. Seek medical aid.

**SKIN CONTACT:** Wash with soap and water. If irritation occurs, seek medical aid.

**EYE CONTACT:** Flush with water for 15 minutes. Seek medical aid.

**INGESTION:** Not normal route of exposure. No known effects. Seek medical advise.

## SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

MEANS OF EXTINCTION: Non-Flammable Material  
FLASH POINT AND METHOD: N.A.P.  
AUTOIGNITION TEMPERATURE: N.A.P.  
UPPER FLAMMABLE LIMIT (% BY VOLUME): N.A.P.  
LOWER FLAMMABLE LIMIT (% BY VOLUME): N.A.P.  
SPECIAL FIRE FIGHTING PROCEDURES: Non-Flammable Material  
EXPLOSION DATA: This is an inert material and will not produce a dust explosion

## SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY: Stable CONDITIONS TO AVOID: No known hazardous instability  
INCOMPATABILITY (Materials to avoid): Incompatible with hot chlorinated rubber  
REACTIVITY AND UNDER WHAT CONDITIONS: N.A.P.  
HAZARDOUS DECOMPOSITION PRODUCTS: No known hazardous decomposition  
HAZARDOUS POLYMERIZATION: Will not occur

## SECTION 6 – TOXICOLOGICAL PROPERTIES

### ROUTES OF ENTRY

SKIN CONTACT: Acute overexposure causes skin irritation  
INGESTION: No hazard under normal circumstances  
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 ABSORPTION: N.A.P.  
EYE CONTACT: May cause eye irritation

EXPOSURE LIMITS: 1985-86 ACGIH classifies alumina as a nuisance dust. See SECTION II.  
CARCINOGENICITY: 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 7 – ENGINEERING CONTROLS / PERSONAL PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT

PROTECTIVE GLOVES: Rubber or neoprene gloves.  
EYE PROTECTION: Chemical splash goggles.  
RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator where dust may occur.  
OTHER CLOTHING OR EQUIPMENT: Barrier cream recommended for person with unusual skin sensitivity.  
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.

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

WASTE DISPOSAL: Comply with Federal, State and Local Regulations. Consideration must be made of the additional kerf added during use which may change toxicity.

HANDLING AND STORAGE: Avoid direct sunlight during prolonged storage.

OTHER: CANADIAN WHMIS CLASSIFICATION: D28

## SECTION 3 – PHYSICAL DATA

PHYSICAL STATE: Powder  
ODOUR AND APPEARANCE: White, odorless  
BOILING POINT: N.A.P.  
MELTING POINT: N.A.P.  
SOLUBILITY IN WATER: Dispersible

SPECIFIC GRAVITY (Water = 1): N.A.P.  
VAPOUR PRESSURE (mm Hg): N.A.P.  
VAPOUR DENSITY (AIR = 1): N.A.P.  
EVAPORATION RATE: N.A.P.  
(Butyl Acetate = 1)

## SECTION 9 – PREPARATION OF MATERIAL SAFETY DATA SHEET

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DATE: February 15, 2008

