

# MATERIAL SAFETY DATA SHEET

## Section 1. Chemical Product and Company Identification

Product Code

722

Product Name

Aluminum Oxide

Manufacturer's Name

Ferro Electronic Materials

Emergency Telephone Number

(216) 641-5324 Ferro 24Hr. Information Number

Address (Number, Street, City, State, and ZIP Code)

1789 Transelco Drive

Telephone Number For Information

(315) 536-3357

Penn Yan, New York 14527

Date revised

January 4, 2002

Revised by

Penn Yan EHS Dept.

## Section 2. Composition / Information on Ingredients

Component	CAS Registry #	wt. %	Exposure Limits	
			ACGIH TLV	OSHA PEL
Aluminum Oxide	1344-28-1	100%	10 mg/m3	15 mg/m3*

ACGIH TLV's Alumina Dust: Total Fraction - 10 mg/m3 20 mg/m3 STEL

\*Respirable Fraction - 5 mg/m3

## Section 3. Hazards Identification

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### EMERGENCY OVERVIEW

Treat this material as a nuisance dust. Unused product is non-hazardous when tested for characteristic toxicity by EPA TCLP Method. Material is nonflammable and stable.

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### POTENTIAL HEALTH EFFECTS:

#### EYE CONTACT :

Dust may irritate eyes. Contact with dust or slurry may be abrasive and irritating causing tearing and redness.

#### INHALATION :

Breathing dust may result in irritation of the nose and throat.

Production workers should wear appropriate disposable face masks when conditions are dusty, such as during clean-up and equipment malfunction.

#### SKIN CONTACT :

Not absorbed through skin. Contact with broken skin may be irritating and result in redness.

#### INGESTION :

All accidental ingestion of dust or slurry may cause irritation of the digestive tract.

Not toxic if ingested.

#### CHRONIC EFFECTS / CARCINOGENICITY:

NA

#### TERATOLOGY (BIRTH DEFECT) INFORMATION :

NA

#### REPRODUCTION INFORMATION :

NA

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**Section 4. First Aid Measures**

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**INHALATION :**

Remove to fresh air; apply artificial respiration as needed, obtain first aid or medical assistance.

**EYE CONTACT :**

Wash with large amounts of water, obtain first aid or medical assistance if needed.

Avoid rubbing, may cause to scratch eye. Seek medical attention.

**SKIN CONTACT :**

Remove contaminated clothing and flush affected area with large amounts of water.

Obtain first aid or medical assistance if needed.

**INGESTION :**

Obtain first aid or medical assistance if needed.

Drink large amounts of water if patient is conscious.

**NOTE TO PHYSICIAN :**

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**Section 5. Fire Fighting Measures**

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**FLAMMABLE PROPERTIES:**

FLASH POINT : NA

METHOD USED : NA

**FLAMMABLE LIMITS**

LFL : NA

UFL: NA

**EXTINGUISHING MEDIA :**

N/A

**FIRE & EXPLOSION HAZARDS :**

Not flammable.

No flash point.

No fire or explosion hazard.

**FIRE FIGHTING INSTRUCTIONS :**

Use sufficient local exhaust to reduce the dust.

**FIRE FIGHTING EQUIPMENT :**

Use self-contained breathing apparatus, NIOSH approved, to avoid dust or fumes generated during fire fighting efforts.

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**Section 6. Accidental Release Measures**

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Spill Procedures: Use dustless methods - vacuum and place into sealable container for disposal, or flush with water.

Do not dry sweep. Flush spilled material into suitable retaining areas or containers with water to avoid airborne particulates.

If powder, use with adequate ventilation to meet exposure limits listed in Section 2, page 1 of this MSDS.

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**Section 7. Handling and Storage**

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Clean-up into suitable retaining area or containers.

Respiratory protection: Use NIOSH approved dust mask respirator under appropriate OSHA standards and regulations.

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**Section 8. Exposure Controls / Personal Protection**

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**ENGINEERING CONTROLS :**

Handle with adequate ventilation for nuisance dust; see OSHA 29 CFR 1910.94 ventilation and CFR 1910.1000 (air normal clean-up procedures.

A source of clean water should be available to flush eyes/skin.

**RESPIRATORY PROTECTION :**

Wear approved dust respirators/masks. See OSHA 29 CFR 1910-134, Subpt. Z.

**SKIN PROTECTION :**

Gloves recommended.

**EYE PROTECTION :**

Protection recommended.

**EXPOSURE GUIDELINE (S) :**

Approved by the Food and Drug Administration.

**Section 9. Physical and chemical Properties**

APPEARANCE :	White	MOLECULAR WEIGHT :	NA	SPECIFIC GRAVITY :	3.9
BOILING POINT :	powder	ODOR :	Odorless	VAPOR DENSITY :	NF
EVAPORATION RATE :	NF	pH :	9 - 11	VAPOR PRESSURE :	NF
FREEZING POINT :	NF	PHYSICAL STATE :	powder	VISCOSITY :	NA
MELTING POINT :	powder	SOLUBILITY IN WATER :	NA	% VOLATILE :	NF

**Section 10. Stability and Reactivity**

**CHEMICAL STABILITY :**

Stable

**INCOMPATIBILITY :**

NF

**HAZARDOUS DECOMPOSITION PRODUCTS :**

Hazardous decomposition will not occur.

**HAZARDOUS POLYMERIZATION :**

Hazardous polymerization will not occur.

**Section 11. Toxicological Information**

**EYE :**

See POTENTIAL HEALTH EFFECTS in Section 3.

**SKIN :**

See POTENTIAL HEALTH EFFECTS in Section 3.

**INGESTION :**

See POTENTIAL HEALTH EFFECTS in Section 3.

**INHALATION :**

See POTENTIAL HEALTH EFFECTS in Section 3.

**SUBCHRONIC :**

NA

**CHRONIC / CARCINOGENICITY :**

NA

**TERATOLOGY :**

NA

**REPRODUCTION :**

NA

**MUTAGENICITY :**

NA

**SENSITIZATION :**

Material may irritate skin.

**Section 12. Ecological Information**

**ECOTOXICOLOGICAL INFORMATION :**

NA

**DISTRIBUTION :**

NA

**CHEMICAL FATE INFORMATION :**

NA

**Section 13. Disposal Considerations**

Dispose in accordance with federal, state, and local regulations.

**Section 14. Transport Information (Not meant to be all inclusive)**

D.O.T. SHIPPING NAME : Not a DOT Hazardous Material  
TECHNICAL SHIPPING NAME : NA  
D.O.T. HAZARD CLASS : NNA  
U.N. / N.A. NUMBER : NA  
PRODUCT RQ (LBS) : NA  
D.O.T. LABEL : NA  
D.O.T. PLACARD : None needed  
FREIGHT CLASS BULK : NA  
FREIGHT CLASS PACKAGE : NA  
PRODUCT LABEL : 1,0,0,X

**Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)**

**OSHA STATUS :**

TSCA STATUS : Listed in TSCA.

CERCLA REPORTABLE No

**SARA TITLE III:**

SECTION 302 EXTREMELY No

SECTION 311/312 Yes- Aluminum Oxide

SECTION 313 TOXIC No

RCRA STATUS : No

**CALIFORNIA PROPOSITION 65 :**

NA

**Section 16. Other Information**

**MSDS STATUS:**

Judgements as to the suitability of information herein or the purchaser's purposes are necessarily the purchaser's responsibility.

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Reasonable care has been taken in the preparation of this information, but Ferro extends no warranties, makes no representations and assumes no responsibilities as to accuracy or suitability of this information for any purchaser's use or for any consequence of it's

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