

EMS CATALOG # 50368-10,-20,-30
EMS PRODUCT: Alumina Slurry
(all micron sizes)
DATE: 06/15/2006
PAGE NUMBER: One of 5

MATERIAL SAFETY DATA SHEET

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

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CHEMICAL PRODUCT IDENTIFICATION

PRODUCT NAME: Alumina slurry; aluminum oxide slurry; all micron sizes

DESCRIPTION: Polishing liquid.

COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS #	PERCENT	OSHA PEL	ACGIH TLV
Aluminum Oxide	1344-28-1	10-35	10mg/m ³ (total) 5mg/m ³ (respirable)	10mg/m ³ (total) 5mg/m ³ (respirable)
Water	7732-18-5	65-90	Not established	Not established

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May create nuisance dust; may aggravate existing dermatitis.

POTENTIAL HEALTH EFFECTS

EYE: May cause minor irritation.

SKIN: May cause drying of the skin.

INGESTION: Not expected to be an ingestion hazard.

INHALATION: Excessive exposure may cause cough, mucous production, and shortness of breath.

CHRONIC HEALTH EFFECTS/CARCINOGENICITY

NTP: Not listed.

OSHA: Not listed.

IARC: Not listed.

Medical restrictions: None known.

FIRST AID MEASURES

EYES: Flush with water for 20 to 30 minutes while holding eyelids open. Obtain medical attention if irritation persists.

SKIN: Wash with soap and water.

INGESTION: Call a physician.

INHALATION: Remove to fresh air. Call a physician if shortness of breath persists for more than 15 minutes.

FIRE FIGHTING MEASURES

FIRE FIGHTING: Not applicable.

EXTINGUISHING MEDIA: Not applicable.

HAZARDOUS COMBUSTION PRODUCTS: Not applicable.

FLASH POINT: Not applicable.

LOWER FLAMMABLE LIMIT: Not applicable.

UPPER FLAMMABLE LIMIT: Not applicable.

AUTOIGNITION: Not applicable.

CONDITIONS OF FLAMMABILITY: Not applicable.

EXPLOSION DATA:

Impact sensitivity: Not applicable.

Static discharge: Not applicable.

ACCIDENTAL RELEASE MEASURES

GENERAL: Avoid generating dust.

SMALL SPILLS: Sweep or scoop up material.

LARGE SPILLS: Sweep or scoop up material.

HANDLING AND STORAGE

HANDLING: Wear appropriate protection; use adequate ventilation.

STORAGE: Keep container closed when not in use. Store in a cool, dry place.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: See section labeled COMPOSITION/INFORMATION ON INGREDIENTS.

VENTILATION: Use adequate ventilation to meet exposure limits as listed in section labeled COMPOSITION/INFORMATION ON INGREDIENTS.

RESPIRATORY PROTECTION: NIOSH-approved respirator.

EYE PROTECTION: Splashproof goggles.

SKIN PROTECTION: Rubber gloves.

OTHER: Eye bath and safety shower should be available.

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid with suspended solids.

COLOR: White.

ODOR: Odorless.

SPECIFIC GRAVITY: 1.1-1.2, water=1

VAPOR PRESSURE: Not listed.

VAPOR DENSITY: Not listed.

EVAPORATION RATE: Not listed.

VOLATILE FRACTION BY WEIGHT: Zero.

BOILING POINT: 212°F.

MELTING POINT: 32°F.

DYNAMIC VISCOSITY: Not listed.

KINEMATIC VISCOSITY: Not listed.

SOLUBILITY IN WATER: Vehicle is soluble.

pH: 9.0

STABILITY AND REACTIVITY

STABILITY: Stable.

REACTIVITY: Avoid strong acids and oxidizing agents.

INCOMPATIBILITY: Not applicable

HAZARDOUS POLYMERIZATION: Will not occur.

DECOMPOSITION: Small amounts of carbon monoxide and carbon dioxide from suspending agent.

TOXOLOGICAL INFORMATION

ACUTE TOXICITY:

ORAL: Not listed.

INHALATION: Not listed.

DERMAL: Not listed.

ECOLOGICAL INFORMATION

No information available.

DISPOSAL INFORMATION

RCRA HAZARDOUS WASTE: Not defined as a hazardous waste under RCRA.

WASTE DISPOSAL: Ordinary solid waste methods are recommended, if permitted under Federal, State, and local regulations.

TRANSPORTATION INFORMATION

DOT HAZARD CLASS: Not regulated.

PROPER SHIPPING NAME: Not regulated.

IDENTIFICATION NUMBER: Not regulated.

REGULATORY INFORMATION

FEDERAL EPA

SARA TITLE III: Aluminum oxide listed on section 313.

TSCA STATUS: All ingredients of this product are on the TSCA inventory.

WHMIS CLASSIFICATION: Not listed.

STATE RIGHT TO KNOW

CALIFORNIA 65: Not listed.

FLORIDA: Not listed.

MASSACHUSETTS: Not listed.

NEW JERSEY: Not listed.

PENNSYLVANIA: Aluminum oxide.

OTHER

HMS CODE:

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 1

(0= minimal hazard, 1= slight hazard, 2= moderate hazard, 3= serious hazard, 4= extreme hazard)