Revised: 1999-08-19

Product: ALL METAMAX(TM) PRODUCTS

Code: POZZ2
Date: 07 AUG 1998
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ENGELHARD

MATERIAL SAFETY DATA SHEET

Product: ALL METAMAX(TM) PRODUCTS

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common Name : POZZOLAN
Chemical Name : ALUMINUM SILICATE
Formula : Al2O3.2SiO2
Product CAS No.: ON TSCA INVENTORY
Product Use : Mineral admixture for portland cement-based compositions

Supplier : ENGELHARD CORPORATION, SPECIALTY PIGMENTS & ADDITIVES
Address : 101 WOOD AVENUE
City, St, Zip : ISELIN, NJ 08830-0770
Phone : 1-732-205-6913 FOR CUSTOMER SERVICE
1-502-775-7288 FOR ENVIRONMENT, HEALTH, AND SAFETY

FOR CHEMICAL EMERGENCY CALL CHEMTREC (24 HOURS):
1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands)
1-703-527-3887 (Outside Above Area)

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	% Wt.
ALUMINUM SILICATE		

NOTE: See Section 8 for Exposure Limits and Section 11 for Toxicological Information.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

White powder

Odorless

Flash Point: Not Applicable

May cause mechanical irritation to eyes.
May cause skin irritation.
Prolonged or excessive inhalation may cause respiratory tract irritation.
Prolonged or repeated overexposure may cause lung damage.
This product is not a fire or explosion hazard.
Under certain conditions, kaolin may catalyze the chain polymerization of styrene monomer, producing an exothermic reaction which may generate large amounts of heat and cause combustion. See Section 10: Stability and Reactivity for more information.

ROUTES OF ENTRY

Eyes? NO Skin? NO Inhalation? YES Ingestion? NO

POTENTIAL HEALTH EFFECTS

EYE CONTACT may cause mechanical irritation if exposed to large amounts of dust.

SKIN CONTACT may cause irritation.

INHALATION may cause irritation to respiratory tract and lung damage if exposure is repeated or prolonged.

INGESTION: No adverse effects expected.

CARCINOGENICITY

NTP? NO IARC? NO OSHA? NO

CHRONIC HEALTH HAZARDS

Prolonged inhalation of excessive levels of ALUMINUM SILICATE dust may cause a benign pneumoconiotic condition, not normally associated with a decrement in lung function. In cases of long term exposure to extremely high levels of dust, progressive fibrosis may occur with lung function impairment.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Asthmatic conditions may worsen from prolonged and continuous exposure to dust.

NOTE: See Section 8 for Exposure Limits, Section 11 for Toxicological Information and Section 12 for Ecological Information.

SECTION 4: FIRST AID MEASURES

EYE CONTACT: Flush eyes with plenty of water. If irritation develops, call a physician.

SKIN CONTACT: Procedures normally not needed. If skin contact occurs flush with plenty of water. If irritation develops, call a physician.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician.

INGESTION: If swallowed, induce vomiting immediately as directed by medical personnel.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: Not Applicable
Auto-Ignition: Not Applicable
LEL: Not Applicable
UEL: Not Applicable

NFPA HAZARD CLASSIFICATION

Health: 0 Flammable: 0 Reactivity: 0

HMIS HAZARD CLASSIFICATION

Health: 1* Flammable: 0 Reactivity: 0

* Indicates the possibility of chronic health effects. See Chronic Health Hazards in Section 3 for more information.

EXTINGUISHING MEDIA

Product will not burn. Use appropriate extinguishing media to extinguish combustible materials stored near-by.

SPECIAL FIRE FIGHTING PROCEDURES

Wear positive-pressure self-contained breathing apparatus in fire conditions.

UNUSUAL FIRE AND EXPLOSION HAZARDS

This product is not a fire or explosion hazard.

Under certain conditions, kaolin may catalyze the chain polymerization of styrene monomer, producing an exothermic reaction which may generate large amounts of heat and cause combustion. See Section 10: Stability and Reactivity for more information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Vacuum or scoop the spilled material into a container for reclamation or disposal.

NOTE In the event of an accidental release of this material, the above procedures should be followed. Additionally, proper exposure controls and personal protection equipment should be used (see Section 8: Exposure Control/Personal Protection), and disposal of the material should be in accordance with Section 13: Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

Material may be slippery when wet.
Store in a cool, dry location.

Avoid breathing dust.

Avoid contact with eyes.

Use with adequate ventilation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

INGREDIENT	PEL-OSHA	TLV-ACGIH
ALUMINUM SILICATE CAS NO.: IN TSCA	10 mg/m3 (Total dust) 5 mg/m3 (Respirable dust)	2 mg/m3 (Respirable fraction)

Aluminum silicate is classified as a nuisance dust by the American Conference of Governmental Industrial Hygienists (ACGIH).
Unless otherwise noted, all values are reported as 8-hour Time-Weighted Averages (TWAs) and total dust (particulates only). All ACGIH TLVs refer to the 1998 Standards. All OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, January 19, 1989.

RESPIRATORY PROTECTION

Use NIOSH-approved dust mask if exposure exceeds PEL/TLV.

VENTILATION

General; local exhaust ventilation as necessary to control any air contaminants to within their PELs or TLVs during the use of this product.

PROTECTIVE EQUIPMENT

Safety glasses (with side shields).

PERSONNEL SAMPLING PROCEDURE

For NUISANCE DUST: Refer to NIOSH Manual of Analytical Methods (NMAM), 4th Edition, Method 0500.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder
Odor: Odorless
Boiling Point: Not Applicable
Specific Gravity (H2O=1): 2.2 to 2.7
Melting Point: Not Determined
Vapor Pressure (mm Hg): Not Applicable
Vapor Density (Air=1): Not Applicable
Evaporation Rate: Not Applicable
% Solubility In Water: Insoluble
pH: 5 to 6.5

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.
Avoid: None expected.

INCOMPATIBILITY (Materials to Avoid)

None expected.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS

No hazardous decomposition or by-products are expected.

Polymerization: Under certain conditions, kaolin may catalyze the chain polymerization of styrene monomer, producing an exothermic reaction which may generate large amounts of heat and cause combustion. This kaolin product should NOT be added directly to styrene monomer NOR should styrene monomer be directly added to this product. This reaction does not occur when this kaolin product is added to polyester resins containing free styrene. If the formulation requires additional styrene monomer to be added at the end of the mix cycle, the kaolin MUST be fully dispersed in the polyester resin

BEFORE the incorporation of the styrene monomer.
Avoid: The direct mixture of this kaolin product with styrene monomer.

SECTION 11: TOXICOLOGICAL INFORMATION

CHEMICAL NAME	% Wt.	LD50	LC50
ALUMINUM SILICATE CAS NO.: IN TSCA	~100	Not Available	Not Available

NOTE: See Sections 3, 8 and 12 for additional information.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

No data available.

ENVIRONMENTAL FATE

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

US EPA Waste Number: Not Regulated

This product, if disposed as received, is a non-hazardous waste on the basis of TCLP testing under current EPA Hazardous Waste Regulation as defined by 40 CFR Part 261 et al. Disposal/recycling/reclamation requirements will vary by location and type of disposal selected. Consult with state and local regulatory authorities.

NOTE Chemical additions, processing or otherwise altering this material may make the waste management information presented above incomplete, inaccurate or otherwise inappropriate.

As local regulations may vary; all waste must be disposed/recycled/reclaimed in accordance with federal, state, and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

INTERNATIONAL
UN Number: Not Regulated

UNITED STATES

EPA Waste Number: Not Regulated

DOT Classification: Not Regulated

CANADA
PIN Number: Not Regulated
TDG Class: Not Regulated

EC
DGL: Not Determined

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

TSCA: IN TSCA

SARA 311 AND 312 HAZARD CATEGORIES

IMMEDIATE (Acute) Health Hazard: YES
DELAYED (Chronic) Health Hazard: YES
FIRE Hazard: NO
REACTIVITY Hazard: NO
Sudden Release of PRESSURE: NO

SARA SECTION 313 NOTIFICATION

This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

OZONE DEPLETING SUBSTANCES (ODS)

This product neither contains nor is manufactured with an ozone depleting substance subject to the labelling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

VOLATILE ORGANIC COMPOUNDS (VOC)

None

US STATE REGULATIONS

VOLATILE ORGANIC COMPOUND (CARB): Not Determined

CANADIAN REGULATIONS

DSL/NDSL: DSL
WHMIS Classification: Not Determined

EUROPEAN REGULATIONS

EINECS: Yes

OTHER REGULATIONS

MITI (Japan): Yes AICS (Australia): Yes

SECTION 16: OTHER INFORMATION

REVISIONS
Revision Number: 3
This MSDS has been revised in the following section(s):
SECTION 3: HAZARDS IDENTIFICATION
SECTION 5: FIRE-FIGHTING MEASURES
SECTION 10: STABILITY REACTIVITY

PREPARATION INFORMATION

Prepared By: Corporate Environment, Health & Safety Group
Phone Number: See Section 1

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, and management and for persons working with or handling this product. The information presented in the MSDS is premised upon proper handling and anticipated uses and is for the material without chemical additions/alterations. We believe this information to be reliable and up-to-date as of the date of publication, but make no warranty that it is. Additionally, if this Material Safety Data Sheet is more than three years old, please contact the supplier at the phone number listed in Section 1 to make certain that this sheet is current. End of MSDS.....