

MATERIAL SAFETY DATA SHEET

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MARTIN MARIETTA MAGNESIA SPECIALTIES P.O. BOX 15470 BALTIMORE, MD 21220 (410) 780-5500	MSDS CODE: 90-001W MAG DATE: November 20, 2009
	EMERGENCY PHONE: (800)424-9300 CHEMTREC
CHEMICAL DESCRIPTION: Oxides of calcium and magnesium & (K, Mg) Sulfate Mix	
PRODUCT USE: Animal and aquaculture feed pellet binder	
PRODUCT NAME(S): Pel Plus 250A	

SECTION II: HAZARDOUS COMPONENTS

HAZARDOUS COMPONENT	CAS NUMBER	APPROX WT %	LD50 or LC50 (species/route)
Dolime (K,Mg) Sulfate	50933-69-2 mixture	60-100 15-40	No data available No data available

SECTION III: PHYSICAL DATA

BOILING POINT (F):	Not applicable	FREEZE POINT (F):	Not applicable
pH:	Not determined	VAP PRESS (mm Hg):	Not applicable
% VOLATILE (by VOL):	Not applicable	SPECIFIC GRAVITY:	Not determined
VAPOR DENSITY:	Not applicable	EVAPORATION RATE:	Not applicable
SOLUBILITY IN WATER:	Moderately	ODOR THRESH (ppm):	Not applicable
PHYSICAL STATE:	Solid	OIL/WATER COEFFIC:	Not applicable
APPEARANCE AND ODOR: Dry grey to white powdery to granular solid, musty odor			

SECTION IV: FIRE & EXPLOSION DATA (con't on page 2)

FLASH POINT (METHOD): Product is not flammable or combustible.			
AUTO-IGNITION TEMP:	Not applic	LEL:	Not app
		UEL:	Not app
SENSITIVE TO MECHANICAL IMPACT? No		SENSITIVE TO STATIC DISCHARGE? No	

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SECTION IV: FIRE & EXPLOSION DATA (con't From page 1)

FLAMMABILITY CLASS: Not Flammable	CONDITIONS OF FLAMMABILITY: Not Flammable
<p>EXTINGUISHING MEDIA: Product is not Flammable. Use media appropriate to primary source of fire. Otherwise, use dry chemical or carbon dioxide as product in contact with water will slowly hydrate and evolve heat.</p>	
<p>SPECIAL FIREFIGHTING PROCEDURES: Avoid breathing vapors or dust. Avoid any contact with wet product or wet/perspiring skin to dry product. Heat may evolve as product is reacting with water (hydrating) and cause slow forming burns to exposed areas.</p>	
<p>UNUSUAL FIRE & EXPLOSION HAZARDS: None known.</p>	
<p>HAZARDOUS COMBUSTION PRODUCTS: None known.</p>	

SECTION V: REACTIVITY DATA

STABLE - YES: XX	NO:
<p>CONDITIONS OF REACTIVITY: May react with incompatibles listed below. May also react with water (hydrate) and generate heat.</p>	
CONDITIONS OF CHEMICAL INSTABILITY:	None known.
<p>INCOMPATIBILITY (MATERIALS TO AVOID): Contact with acids, water based liquids or chemicals that have water of crystallization may lead to a vigorous reaction during which heat will be liberated. Contact with Fluorine may produce incandescence during decomposition. If product is heated in a current of hydrogen, a violent reaction may occur.</p> <p>liberated. Contact with Fluorine may produce incandescence during decompo-</p>	
<p>HAZARDOUS DECOMPOSITION PRODUCTS: Acrid smoke and fumes.</p>	
IS THIS PRODUCT SUBJECT TO POLYMERIZATION?	NO: XX YES:
CONDITIONS UNDER WHICH PRODUCT WILL POLYMERIZE:	None known.

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SECTION VI: TOXICOLOGICAL/HEALTH HAZARD DATA

ROUTES OF ENTRY	- SKIN CONTACT: Yes INHALATION: Yes	SKIN ABSORPTION: No INGESTION: Yes	EYE CONTACT: Yes
EXPOSURE LIMITS	ACGIH	OSHA	
Oxides of calcium/magnesium	2 mg/m3	2 mg/m3	
(K, Mg) Sulfate	10 mg/m3 **	5 mg/m3 (Respirable)* 15 mg/m3 (Total) *	
* OSHA: Nuisance Dust ** ACGIH: Particulates Not Otherwise Classified or PNOG			
EFFECTS OF ACUTE EXPOSURE: If material comes in contact with wet or perspiring skin, nasal passages or mucous membranes, material may hydrate (which generates heat) and may cause severe irritation. If left untreated, burns may form slowly on exposed areas. Eyes and open cuts are especially vulnerable.			
EFFECTS OF CHRONIC EXPOSURE: Prolonged or repeated exposure may lead to reduced pulmonary function and dermatitis.			
SIGNS & SYMPTOMS OF EXPOSURE: SKIN CONTACT: Under dry conditions, chapping or dermatitis of skin. If wet or perspiring skin, severe irritation followed by slow forming burns. EYE CONTACT: Initially, tearing and redness. If left untreated, severe irritation or slow forming burns may appear. INHALED DUST: Initially, sneezing and coughing. If exposure is excessive, severe irritation to mucous membranes and nasal passages.			
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: As with exposure to any environment without adequate personal protection, inhalation of dust may aggravate any pre-existing lung disease including (but not limited to) asthma, allergies, bronchitis or emphysema. Prolonged or frequent contact may aggravate pre-existing skin conditions.			
NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS: None known.		IRRITANCY OF PRODUCT: No data available.	
REPRODUCTIVE TOXIN? NO	TERATOGEN? NO	MUTAGEN? NO	SENSITIZER? NO
CONSIDERED CARCINOGENIC BY - NTP? NO		IARC? NO	OSHA? NO

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SECTION VII: PREVENTATIVE MEASURES

GLOVES (SPECIFY):

Dust impervious gloves during manual handling of product.

EYES (SPECIFY):

Safety glasses with sideshields or tight fitting goggles.

FOOTWEAR (SPECIFY):

Steel reinforced shoes when handling pallets of product.

CLOTHING (SPECIFY):

Long sleeve, buttoned collar, long pants extending over shoes or coveralls.

RESPIRATORY PROTECTION (SPECIFY):

UP TO 100 MG/M3: Any dust, mist or fume respirator; any air supplied respirator; or, self-contained breathing apparatus.

UP TO 250 MG/M3: Any supplied air respirator operated in a continuous flow mode or any powered air purifying respirator with a dust/mist/fume filter.

UP TO 500 MG/M3: High efficiency particulate filter with full face piece; any powered air supplied respirator with a tight fitting face piece and a high efficiency particulate filter; any self contained breathing apparatus with a full face piece; any supplied air respirator with a full face piece.

UP TO 7500 MG/M3: Any air supplied respirator with full face piece and operated in a pressure demand or other positive pressure mode.

EMERGENCY or ENTRY INTO UNKNOWN CONCENTRATIONS: Self contained breathing apparatus with full face piece and operated in pressure demand mode or air supplied respirator with full face piece operated in a pressure demand or other positive pressure mode in combination with auxiliary self contained breathing apparatus operated in pressure demand or positive pressure mode.

ESCAPE: Any air purifying full face piece respirator with high efficiency particulate filter or any appropriate escape type self contained apparatus.

SPECIFIC ENGINEERING CONTROLS TO BE USED WITH THIS PRODUCT:

Local and general mechanical dust collection and ventilation in accordance with good engineering practices should be provided to maintain dust levels below specified exposure levels.

PROCEDURES TO FOLLOW IN CASE OF SPILL OR LEAK:

Ventilate enclosed spaces and use appropriate respiratory protection. Sweep or vacuum spilled material in a manner to avoid generation of dust. Reclaim product for re-use, if possible, or collect and seal in DOT approved containers for disposal in an appropriate manner.

DISPOSAL PROCEDURE: Dispose in accordance with local, state and federal regs.

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SECTION VII: PREVENTATIVE MEASURES (con't From page 4)

HANDLING PROCEDURES AND EQUIPMENT:

Keep container closed when not in use. Avoid contact with eyes. Avoid breathing dust or fume and only use in a well ventilated area. Consumption of food and beverages should be avoided in work area where product is being used. After handling product, always wash hands and face thoroughly with soap and water before eating, drinking or smoking.

STORAGE REQUIREMENTS:

Suitable for any general chemical storage area.

DOT SHIPPING INFO:

Non-regulated

Non-regulated

No special precautions.

SECTION VIII: FIRST AID PROCEDURES

INHALATION:

Remove from exposure area to fresh air immediately. If breathing has stopped give artificial respiration. Keep affected person warm and at rest. Give oxygen if respiration is shallow and get medical attention immediately. Treat metal fume fever with bed rest and treat for fever and pain.

EYE CONTACT:

Do not rub eyes. Wash eyes under slowly running water for at least fifteen minutes, making sure eyelids are held wide open and moved slowly in every direction. Ensure no solid particles remain in creases of eyelids. If so, continue to wash. If irritation persists, consult an ophthalmologist.

SKIN CONTACT:

Remove from source of irritation. Remove contaminated clothing and wash affected area thoroughly with a mild soap and water. Wash contaminated clothing before reusing. If irritation persists, consult a physician.

INGESTION:

If large amounts are swallowed and person is conscious, induce vomiting to prevent further absorption. Give oxygen if respiration is shallow and get medical attention immediately. Never give anything by mouth to an unconscious person.

SECTION IX: PREPARATION INFORMATION

PREPARED BY:Linda Aydlett

PHONE:(410) 455-5719

DATE PREPARED:01/04/1999

SOURCES USED:

ACGIH 1998; RTECS June '98; Sax - 8th Ed.; Ind. Exposure & Control Techn. For OSHA Regulated Substances, March, 1989; NIOSH Occup. Health Guide. For Chem. Sub. - Vol. I & II.