J. M. Huber Corporation Magnesium Hydroxide MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME

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ADDRESS

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SECTION I - MATERIAL DESCRIPTION

CHEMICAL NAME AND FORMULA

Magnesium Hydroxide, Mg(OH)₂

CHEMICAL FAMILY

Alkaline Earth Hydroxide

TRADE NAME/SYNONYMS

Zerogen 50, Zerogen 51, Zerogen 52

CAS NUMBER: 1309-42-8 (Magnesium Hydroxide)

SECTION II - INGREDIENTS AND IDENTIFICATION							
Typical Occupational Exposure Limits CAS No. Ingredient % By Weight OSHA PEL ACGTH TLV							
1309-42-8	Mg(OH) ₂	97+	5	5			
1317-65-3	CaCO ₃	1-2	15	10			
546-93-0	MgCO ₃	1-2	15	15			

SECTION III - PHYSICAL DATA					
BOILING POINT (°F)	NA	VAPOR PRESSURE (mmHg)	NA		
VOLATILITY	NA	VAPOR DENSITY (air=1)	NA		
EVAPORATION RATE	NA	APPEARANCE AND ODOR	White powder, odorless		
SOLUBILITY IN WATER	0.0009 g/100 ml at 18°C	MELTING POINT	NA Decomposes at 350°C		
SOLUBILITY (OTHER)	Dilute Acids and Ammonium Salts	SPECIFIC GRAVITY	2.36		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA				
FLASH POINT	NA	EXTINGUISHING MEDIA	NA	
FLAMMABLE LIMITS IN AIR	NA	SPECIAL FIRE PROCEDURES	NA	
UNUSUAL FIRE AND EXPLOSION HAZARDS	NA		·	
ADDITIONAL INFORMATION: Ev	olves water	vapor on heating to above 350° C		

SECTION V - REACTIVITY DATA				
STABILITY	Stable in air, water and heat (up to 350° C)			
INCOMPATIBILITY	Acids, strong oxidizing agents			
HAZARDOUS DECOMPOSITIONS OR BYPRODUCTS	Magnesium Oxide			
HAZARDOUS POLYMERIZATION	Will not occur			
CORROSIVITY	Not corrosive			

SECTION VI - HEALTH HAZARD DATA							
ROUTES OF EN	TRY:						
INHALATION	YES	SKIN	NO	INGESTION	YES	EYES	YES
HEALTH HAZA	RDS:				•		·
Acute				(Short Term) Over Exposure			
Skin Absorption			None reported				
Eye Contact			May cause abrasion and irritation				
Inhalation			Airborne nuisance dust may cause coughing, shortness of breath, wheezing or general irritation of breathing passages				
Skin Contact			May cause dryness and irritation				
Ingestion			May cause abdominal pain and/or diarrhea. Acts as a laxative.				
Chronic			(Long-Term) Over Exposure				
				s in eye contact irritation, nuisance dust can cause c			
Carcinogenic	ity				<u></u>		
None ren	orted for eve	e contact, skin a	bsorption or	contact, ingestion or inf	nalation		-

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SECTION	ON VI - HEALTH HAZARD DATA (Continued)			
SIGNS AND SYMPTOMS OF EXPOSURE:				
Acute	(Short Term) Over Exposure			
Skin Absorption	None Reported			
Eye Contact	Tearing, redness			
Inhalation	May cause coughing, mucus production, shortness of breath, wheezing and/or irritation of breathing passages			
Skin Contact	Irritation, rash			
Ingestion	Single dose oral toxicity is low			
Chronic	(Long Term) Over Exposure			
Airborne nuisance dust can cau chest pains and/or choking if u	use aggravated symptoms described above, and could lead to ninterrupted and untreated.			
Emergency First Aid Procedures:				
Inhalation	Remove from exposure area to fresh air immediately			
Eye Contact	Flush eyes with clean water for at least 15 minutes until no evidence of material remains			
Skin Contact	Rinse exposed areas with fresh water, then wash thoroughly with mild soap and warm H ₂ O. Avoid vigorous scrubbing which could aggravate abrasion irritation.			

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE			
	Steps to be taken in case material is released or spilled		
Small Spills	Small Spills Use scoop or shovel to transfer material into a sealable container		
Large Spills	Notify environmental personnel. Prevent runoff to watershed. Control area of spill and collect material in sealable container or covered transport vehicles for removal to use site or disposal facility.		
Disposal	Re-use material whenever possible. Waste material must be disposed of in accordance with local, state and federal agencies, at approved secure landfill.		

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SECTION VIII - CONTROL MEASURES			
Respiratory Protection	Use NIOSH/MSHA dust mask		
Ventilation Provide sufficient ventilation to maintain dust concentration below ACGTH TLV			
Skin Protection	Wear gloves to prevent skin abrasions		
Eye Protection	Wear eye protection whenever airborne nuisance dust is generated. Goggles are recommended		

SECTION IX - SPECIAL PRECAUTIONS & COMMENTS

Chemical substance components have been reported to the EPA Office of Toxic Substances in accordance with the requirements of the Toxic Substance Control Act (Title 40 CFR Part 710).

All statements, technical information and recommendations contained herein are based on tests and data which this company believes to be currently reliable, but accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto.

SECTION X - ADDITIONAL INFORMATION					
HMIS Ratings:	-				
Health	0	Reactivity	I		
Flammability	0	Personal Protection	Dust Respirator		

FOR MORE INFORMATION CONTACT Tech. Services Dept., J. M. Huber Corporation	PHONE (770)441-1301	DATE February 13, 1997
Prepared by: Paris Chen		

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