



DOC# 990528-R402

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT IDENTIFICATION

**GROUP NAME:** CTMAG  
**TRADE NAME:** Zerogen™ Vertex (DP-6026N)  
**Chemical Name:** Surface Modified Magnesium Hydroxide  
**MANUFACTURER'S NAME:** J.M. Huber Corporation  
 Huber Engineered Materials  
**STREET ADDRESS:** One Huber Road  
**CITY/STATE/POSTAL CODE/COUNTRY:** Macon, Georgia 31298 USA  
**TELEPHONE NUMBER:** (912) 745-4751

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 \*\*\*\*\* CAUTION: COMPLETE HEALTH AND SAFETY DATA FOR THIS TREATED PRODUCT IS UNAVAILABLE. \*\*\*\*\*  
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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**COMMON CHEMICAL NAME:** Surface Modified Magnesium Hydroxide Mg(OH)<sub>2</sub>

**SYNONYMS:** Alkaline Earth Hydroxide

<u>COMPOUND</u>	<u>CAS NUMBER</u>	<u>TYPICAL CONCENTRATION, %</u>
MAGNESIUM HYDROXIDE	1309-42-8	97-99
TRADE SECRET*	Proprietary	1-3

**ADDITIVES OR INGREDIENTS WHICH MAY BE PRESENT, AND WHICH MIGHT BE OF INDUSTRIAL HYGIENE INTEREST:**

**SILICA:** Product contains less than 0.1% total crystalline silica. Inhalable crystalline silica fraction, unknown.

**\*NOTE:** The exact chemical identity and concentration of the treatment additive is confidential. In its concentrated form the treatment is a mild eye and skin irritant. Inhalation of high concentrations of vapor or the ingestion of this material can be hazardous.

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### 3. HAZARDS IDENTIFICATION

<u>ROUTE OF EXPOSURE</u>	<u>HAZARD DETERMINATION</u>
SKIN CONTACT	May cause slight mechanical irritation.
SKIN ABSORPTION	Non-hazardous.
EYE CONTACT	May cause slight mechanical irritation.
INGESTION	May cause abdominal pain and/or diarrhea.
INHALATION	

(For Total dust with UNDER 1.0% Total quartz)

Nuisance Dust: TLV = 10.0 mg/cu meter of Total dust. (ACGIH)  
PEL = See 29 CFR 1910.1000; Tables Z-1-A and Z-3. (OSHA)

(For Total dust with OVER 1.0% Total quartz)

Respirable quartz not to exceed TLV of 0.1 mg/cu meter in the respirable dust.  
PEL = See 29 CFR 1910.1000; Tables Z-1-A and Z-3. (OSHA)

(Thermal decomposition will generate Magnesium Oxide 1309-48-4)

TWA of 10 mg/m<sup>3</sup>.

SOURCE: OSHA 29 CFR 1910.1000 TABLE Z-1-A

SOURCE: ACGIH TLV'S Threshold Limit Values for Chemical Substances

SOURCE: To the best of our knowledge, no studies have been done on eye, skin or ingestion hazards.

Note: This hazard determination is based on the **untreated** magnesium hydroxide dust. Historical experience suggests that the hazards of the **chemically-treated** magnesium hydroxide dust may be similar.

### 4. FIRST AID MEASURES

**EYE:** Flush eyes with clean water for at least 15 minutes until no evidence of material remains.

**SKIN:** Rinse exposed areas with fresh water, then wash thoroughly with mild soap and warm water. Avoid vigorous scrubbing which could aggravate abrasion irritation.

**INHALATION:** Remove from exposure area to fresh air immediately.

**SKIN ABSORPTION:** None.

### 5. FIRE-FIGHTING MEASURES

**FLASH POINT:** N.A.

**AUTOIGNITION TEMPERATURE:** None.

**FLAMMABLE LIMITS IN AIR:** N.A.

**ADDITIONAL INFORMATION:** Evolves water vapor on heating to above 350° C. Special fire fighting procedures or extinguishing media are not applicable.

## 6. ACCIDENTAL RELEASE MEASURES

**PROCEDURE WHEN MATERIAL IS RELEASED OR SPILLED:** Clean spills by sweeping or vacuuming. Waste material should be disposed of in accordance with local, state and federal agencies.

**NEUTRALIZING CHEMICALS:** None required.

## 7. HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Avoid dusting and contact with eyes and skin. Do not inhale dust.

**STORAGE:** Keep material dry. Do not store near acids or strong oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT

**EYE:** Wear eye protection whenever airborne nuisance dust is generated. Goggles are recommended.

**VENTILATION:** Provide sufficient ventilation to maintain dust concentration below ACGIH Threshold Limit Values (TLVs).

**GLOVES:** Wear gloves to prevent skin abrasions.

**RESPIRATORY PROTECTION:** Use a dust mask approved by NIOSH.

### PRECAUTIONARY STATEMENTS/LABELING:

PRODUCT SAFETY LABEL / ETIQUETA DE SEGURIDAD		
Health / Salud =	0 *	NO ACUTE EFFECTS / Ninguno efecto agudo
Flammability / Inflamable =	0	NONE / No
Reactivity / Reactiva =	0	NONE / No
Maximum Personal Protection / Maxima Proteccion Personal =	E *	DUST MASK / Máscara de polvo * H.M.I.S. Label / H.M.I.S. Etiqueta
<b>MAGNESIUM HYDROXIDE / HIDRÓXIDO-de-MAGNESIO (CAS # 1309-42-8)</b>		
* <b>CAUTION:</b> Prolonged breathing of excessive dust may affect lung function. Use dust mask in dusty areas.		* <b>ADVERTENCIA:</b> Respiración de polvo excesivo puede afectar la función pulmonar. Use una mascarilla en áreas con mucho polvo.
<b>J.M. Huber Corporation – Engineered Materials Division</b> <b>Atlanta, Georgia 30339 USA</b>		
LSLMGH		

## 9. PHYSICAL CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** White powder with negligible odor.

**BOILING POINT:** N.A.

**SPECIFIC GRAVITY:** 2.36

**% VOLATILES BY VOL:** 1-2% water.

**pH:** Not available

**MELTING POINT:** N.A.

**VAPOR DENSITY (air =1):** N.A.

**SOLUBILITY IN WATER:** Negligible.

N.A. = NOT APPLICABLE

## 10. STABILITY AND REACTIVITY

**CONDITIONS CONTRIBUTING TO INSTABILITY:** Stable in air, water, and heat (up to 350° C.). For the treatment chemical avoid temperatures over 100 C.

**INCOMPATIBILITY:** Acids and strong oxidizing agents. For the treatment chemical avoid water and aqueous acids and halogen (chloride) in the presence of sunlight.

**CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:** May occur for the treatment chemical if exposed to polymerization catalysts.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Burning of the treatment chemicals may produce carbon monoxide, carbon dioxide, oxides of silicon, and water.

## 11. TOXICOLOGICAL INFORMATION

**EFFECTS OF ACUTE OVEREXPOSURE:** Eye contact may cause abrasion and irritation. Inhalation of airborne nuisance dust may cause coughing, shortness of breath, wheezing or general irritation of breathing passages. Contact with skin may cause dryness and irritation.

**EFFECTS OF CHRONIC OVEREXPOSURE:** Airborne nuisance dust may cause chronic effects in eye contact irritation, including permanent abrasion damage to cornea. Breathing airborne nuisance dust can cause chronic breathing difficulty.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Unknown.

**Note:** This hazard determination is based on the untreated magnesium hydroxide dust. Historical experience suggests that the hazards of the chemically-treated magnesium hydroxide dust may be similar.

## 12. ECOLOGICAL INFORMATION

**AQUATIC TOXICITY:** Unknown.

## 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Use waste disposal procedures which are in compliance with Federal, State and Local Regulations.

## 14. TRANSPORT INFORMATION

DOT: NOT RESTRICTED

### INTERNATIONAL REGULATIONS

UN number: None.

Land transport: None.

Inland waterways: None.

Sea transport (IMDG code): None.

Air transport (IDAO/IATA): None.

## 15. REGULATORY INFORMATION

### STATE

Consult Local and State Hazard Communication Regulations.

### FEDERAL

FDA: None known. Contact Huber Technical Services.

TSCA: Is this product and all its ingredients certified for inclusion in the Toxic Substances Control Act Inventory of Chemical Substances? **Yes.**

OSHA: Have ingredients in concentrations above 0.1% been:

1. Listed in the NTP Annual Report on Carcinogens? **No.**
2. Found to be a potential carcinogen by OSHA or IARC? **No.**

SARA313: NO

CAPROP65: YES

CANDSL: NO

EINECS: NO

**WARNING:** *This product contains a chemical known to the State of California to cause cancer. -- Trace amounts of lead, cadmium, respirable crystalline silica. --*

## 16. OTHER INFORMATION

*The information contained in this Material Safety Data Sheet is believed to be reliable. No guarantee is implied or expressed regarding the accuracy of this information or the use of the product since the conditions for use are beyond our control. Nothing contained herein should be construed as a recommendation to use this product in conflict with Federal or state regulations or existing patents covering any material or its use.*

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**FOR MORE INFORMATION CONTACT:**

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