

MATERIAL SAFETY DATA SHEET

PREMIER CHEMICALS

MSDS No.: 2637

Phone: PREMIER CHEMICALS: 1-800-227-4287

Date Prepared: 3/05

CHEMTREC, 24-Hr Emergency Assistance: 1-800-424-9300

This Revision:

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material / Product Name(s): THIOGUARD® I

CAS Number: Mixture

Chemical Family: Inorganic Oxide

General Use: A sacrificial coating applied to sewer crowns and manhole well for neutralization of acidic condensates.

Manufacturer / Supplier: PREMIER CHEMICALS
7251 Engle Road
Suite 415
Middleburg Heights, OH 44130

SECTION 2. INGREDIENTS / COMPOSITION

Ingredient name:	CAS Number:	Percent:	IARC/NTP/OSHA:	Exposure Limits:
Magnesium Hydroxide	1309-42-8	50-65	No	Nuisance Particulate OSHA PEL:TWA 15mg/m ³ ;respirable: 5mg/m ³ . ACGIH TLV:TWA Total dust:10mg/m ³ ; respirable dust: 5mg/m ³ .
Water	7732-42-8	35-50	No	None Established
Misc. Nonhazardous Ingredients ea <1%	----	0.5-1.5	No	Nuisance Particulate

This product does not contain any substance which is listed as or suspected of being a carcinogen by IARC, NTP or OSHA.

SECTION 3. HAZARDS IDENTIFICATION

HMIS

HEALTH HAZARD	1 - SLIGHT
FLAMMABILITY HAZARD	0 - MINIMAL
REACTIVITY HAZARD	0 - MINIMAL
PERSONAL PROTECTION	B - Glasses, Gloves

EMERGENCY OVERVIEW:

A tan to off-white aqueous slurry. Not a fire or spill hazard. Product is of low toxicity. Avoid storage of product in tanks/drums constructed of aluminum. Dust from dried product is classified as a "nuisance particulate, not otherwise regulated".

Target Organs: Chronic overexposure may cause lung damage.

Primary route(s) of entry: Inhalation

Acute effects: Particulate may cause eye and upper respiratory irritation.

Chronic effects: Dried product dust is classified as a "nuisance particulate, not otherwise regulated" as specified by ACGIH and OSHA. The excessive, long-term inhalation of mineral dusts may contribute to the development of industrial bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease.

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HAZARD IDENTIFICATION continued from page 1

Signs & symptoms of overexposure:

Eye contact: Particulate is a physical eye irritant.

Skin contact: Prolonged contact may cause slight skin irritation.

Inhalation: Inhalation of airborne particulate may irritate upper respiratory system as well as the throat.

Ingestion: An unlikely route of exposure. If ingested in sufficient quantity, may cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea.

SECTION 4. FIRST AID MEASURES

Eye contact: Flush eyes, including under the eyelids, with large amounts of water. If irritation persists, seek medical attention.

Skin contact: Wash affected areas with mild soap and water.

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.

Ingestion: Ingestion is an unlikely route of exposure. If ingested in sufficient quantity and victim is conscious, give 1-2 glasses of water or milk. Never give anything by mouth to an unconscious person. Leave decision to induce vomiting to qualified medical personnel, since particles may be aspirated into the lungs. Seek immediate medical attention.

SECTION 5. FIRE FIGHTING MEASURES

NFPA code: Flammability: 0, Health: 0, Reactivity: 0, Special: 0.

Flash point: Not Combustible

Unusual Fire Hazard / Extinguishing Media: Use extinguishing media appropriate to combustibles in area of fire.

Hazardous Decomposition Products: None

Firefighting Instructions: Firefighters should wear NIOSH-approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill procedures: Carefully, clean up and place material into a suitable container, being careful to avoid creating excessive dust from dried product. If conditions warrant, clean up personnel should wear approved respiratory protection, gloves, and goggles to prevent irritation from contact and/or inhalation.

SECTION 7. HANDLING AND STORAGE

Storage: Do not store in aluminum tanks. Do not allow product to freeze.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls: Provide sufficient ventilation, in both volume and air flow patterns to control mist/dust concentrations below allowable exposure limits.

Personal protective equipment: The use of eye protection, gloves and long sleeve clothing is recommended.

Respiration protection: Provide workers with NIOSH approved respirators in accordance with requirements of 29 CFR 1910.134 for level of exposure incurred.

Hygienic Practices: Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating or drinking.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: The product is a thick, tan to off-white slurry; odorless.

Boiling Point: 212°F (water component) **Specific Gravity (g/cc):** Slurry Mixture

Melting Point: Decomposes to MgO at 662°F **Bulk Density (lbs./gal.):** 12.8

Water Solubility: Aqueous Slurry **% Volatile by volume:** 0

pH (10% aqueous slurry): 10-11 **Evaporation rate:** Same as Water

SECTION 10. STABILITY AND REACTIVITY

Hazardous Polymerization: Will not occur

Chemical Incompatibilities: Maleic Anhydride; Acids; Aluminum metal in contact with product may produce hydrogen.

Hazardous Decomposition Products: None

SECTION 11. TOXICOLOGICAL INFORMATION

Magnesium Hydroxide CAS #1309-42-8 Toxic and Hazard Review: A general purpose food additive. THERAP CAT: Anacid, cathartic THERAP CAT (VET): Laxative.

TOXICITY DATA: No LD₅₀ or LC₅₀ found for oral, dermal, or inhalation routes of administration.

Balance of Ingredients: No LD₅₀ or LC₅₀ found for oral, dermal, or inhalation routes of administration.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicological / Chemical Fate Information:

No data available on any adverse effects of this material on the environment.

SECTION 13. DISPOSAL INFORMATION

Waste Management/Disposal: This product does not exhibit any characteristics of a hazardous waste. The product is suitable for landfill disposal once the free water is absorbed by any safe absorbent material. Follow all applicable

federal, state and local regulations for safe disposal.

SECTION 14. TRANSPORT INFORMATION

WARNING! PREMIER CHEMICALS prohibits this product from transportation or storage in tanks constructed of aluminum. See Section 10.

US Department of Transportation: Not regulated by DOT as a hazardous material. No hazard class, no label or placard required, no UN or NA number assigned.

Canadian TDG Hazard Class & PIN: Not regulated.

SECTION 15. REGULATORY INFORMATION

Product or components of mixture regulated under following lists:

SARA TITLE III:

Section 302: NO (Extremely Hazardous Substances)

Section 304: NO (Emergency Release)

Section 311: YES (*Community Right-to-Know*, MSDSs or List of Chemicals)

Section 312: YES (*Community Right-to-Know*, Inventory and Location, (Tier I/II))

Section 313: NO (Toxic Chemicals, Toxic Chemical Release Reporting, Form R)

TSCA: All substances in this product are listed in the Chemical Substance Inventory of the Toxic Substances Control Act.

CERCLA Hazardous Substance List, RQ:No

California Proposition 65: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive toxins.

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SECTION 16. OTHER INFORMATION

ACRONYMS AND REFERENCES USED IN PREPARATION OF MSDS':

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS#:	CAS Registration Number is an assigned number to identify a material. CAS stands for Chemical Abstracts Service.
CERCLA:	Comprehensive Environmental Response, Compensation & Liability Act
EPCRA:	Emergency Planning and Community Right-to-Know Act of 1986
HMIS™:	Hazardous Materials Identification System (National Paint & Coatings Association)
IARC:	International Agency for Research on Cancer
MSHA:	Mine Safety and Health Administration
mg/m ³ :	Milligrams per cubic meter
NIOSH:	National Institute for Occupational Safety and Health
NFPA:	National Fire Protection Association
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit (OSHA)
REL:	Recommended Exposure Limit (OSHA)
SARA:	Superfund Amendments and Reauthorization Act
TITLE III:	Emergency Planning and Community Right-to-Know Act
Section 302:	Extremely Hazardous Substances
Section 304:	Emergency Release
Section 311:	<i>Community Right-to-Know</i> , MSDSs or List of Chemicals
Section 312:	<i>Community Right-to-Know</i> , Inventory and Location, (Tier I/II)
Section 313:	Toxic Chemicals, Toxic Chemical Release Reporting, Form R
TLV:	Threshold Limit Values (ACGIH)
TWA:	Time Weighted Average
29CFR1910.134:	OSHA Respiratory Protection Standard

REFERENCES:

Sax, N. Irving: Dangerous Properties of Industrial Materials, Ninth Edition, Van Nostrand Reinhold Co., Inc., 1996.
Kirk, R. and Othmer, D., Encyclopedia of Chemical Technology, Third Edition, Wiley-Interscience, New York, NY 1982.
Clansky, K.B., Suspect Chemicals Sourcebook, 1992-2nd Edition, Roytech Publications, Bethesda, Maryland.
Sax, N. Irving and Lewis, R.J. Hawley's Condensed Chemical Dictionary, Eleventh Ed., Van Nostrand Reinhold Co., Inc., NY
Manufacturers / Suppliers, Material Safety Data Sheets on Raw Materials Used
American National Standard for Hazardous Industrial Chemicals - Material Safety Data Sheets - Preparation, American National Standards Institute, Inc., 11 West 42nd St, New York, NY 10036.

Prepared/revised: J.E. ROWELL
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