W A HAMMOND DRIERITE CO., LTD.

SAFETY DATA SHEET

Section I Product Information

Products: Drierite, Regular Drierite, Non-Indicating Drierite, Commercial Drierite

Common Name: Calcium Sulfate

Chemical Name: Calcium Sulfate Anhydrous

Applicable Drierite Stock Numbers:

11001,11005,11025,11050,12001,12005,12025,12050,13001,13005,13025,13050,14001, 14005,14025,14050,15001,15005,15025,15050,19045,26910,26940,31050,32050,33050, 34020,34050,35050,39045,60011,60012,60013,60014,60016,60018,60061,61025,62020, 63025, 64010,66025,68005,68050

Distributor Name: W A Hammond Drierite Co, Ltd.
Address: P O Box 460, Xenia, OH 45385
Phone Number: 937-376-2927

Manufacturer Name: W A Hammond Drierite Co, Ltd.
Address: P O Box 460, Xenia, OH 45385
Phone Number: 937-376-2927

Emergency Phone: 937-376-2927

Recommended Use: Desiccant, Drying Agent

Section II Hazard Identification

Pictogram: 

Signal Word: Warning

Hazard Statement(s): This product can release nuisance dust in handling or during use. Eye, skin, nose, throat, and upper respiratory irritation may occur with prolonged dust exposures.

Effects of Overexposure:

Acute:

Eyes: Direct contact can cause mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician. Eye irritation Category 2, Subcategory 2B.

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Section II cont.

Skin: However, direct, prolonged or repeated contact with the skin may cause irritation. Rubbing of this product against the skin can result in abrasions. Rinse with water until free of material to avoid abrasions, and then wash skin thoroughly with mild soap and water. May dry skin. Mild Skin Irritation Category B

Inhalation: Inhalation of dusts from this product may irritate the nose, throat, lungs, and upper respiratory tract. Persons exposed to large amounts of this dust may be forced to leave area because of nuisance conditions such as coughing, sneezing, and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.

Ingestion: Harmful if swallowed. Calcium Sulfate is non-toxic; however, ingestion of a sufficient quantity could lead to mechanical obstruction of the gut, especially the pyloric region. See Emergency and First Aid – Ingestion in Section IV.

Chronic: Gypsum sourced calcium sulfate displays no specific toxic properties. (Repeated Exposure: Category 2)

Inhalation: Prolonged and repeated exposure to respirable crystalline silica can result in lung disease (i.e. silicosis) and/or lung cancer.

Eyes: None known

Skin: None known

Ingestion: None Known

Carcinogenicity:

Material	IARC	NTP	ACGIH	CAL-65
Crystalline Silica	Group 1	Group 1	A2	On Record

In 1997, IARC classified inhaled crystalline silica as carcinogenic to humans categorizing it as a Group 1 agent. In this evaluation, IARC noted that carcinogenicity was not detected in all industrial circumstances studied, and may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. Carcinogenicity Category 2: Suspected Carcinogen. There are no known mutagenic, teratogenic, nor has reproductive effects.

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Section III Information on Ingredients

Ingredients	CAS Number	WT%	LC50	LD50
Calcium Sulfate Dihydrate, Calcium Sulfate Anhydrite, or Dihydrate/Anhydrite blend.	7778-18-9	>95	2.61 mg/L [rat]	1,581 mg/kg [rat]
Silicon Dioxide (Crystalline Silica)	14808-60-7	<0.025	Not Available	Not Available
Limestone	1317-65-3	<2	Not Available	6450 mg/kg [rat]

Section IV First Aid Measures

Eyes:	Direct contact can cause mechanical irritation of eyes including: burning, redness, itching, pain or other symptoms. Flush thoroughly with water for 15 minutes. If irritation persists, consult physician. Contact lenses should not be worn.
Skin:	Direct, prolonged or repeated contact with the skin may cause irritation. Rubbing of this product against the skin can result in abrasions. Rinse with water until free of material to avoid abrasions, and then wash skin thoroughly with mild soap and water. May dry skin, and chronic exposure could lead to dermatitis. Wash with mild soap and water. Dry skin may be treated with a commercially available hand lotion. If skin has become cracked, take appropriate action to prevent infection and promote healing.
Inhalation:	Inhalation of dusts from this product may irritate the nose, throat, lungs, and upper respiratory tract. Leave the area of dust exposure and remain away until coughing and other symptoms subside. Prolonged and repeated exposure to respirable crystalline silica can result in lung disease (i.e. silicosis) and/or lung cancer. While other measures are usually not necessary, consult a physician if conditions warrant.
Ingestion:	Unlikely to occur, but may cause gastric disturbances if swallowed. Gypsum is non-toxic; however, ingestion of a sufficient quantity could lead to mechanical obstruction of the gut, especially the pyloric region. Get medical attention immediately.
Target Organs:	Eyes, skin and respiratory system.
Medical Conditions Which may be Aggravated:	Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema, and asthma.
Primary Routes of entry:	Inhalation, eyes and/or skin contact, ingestion.

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Section V Fire and Explosion Hazard Data

Flash Point:	Non-combustible
Auto-Ignition:	Non applicable.
Flammable Limits:	Non applicable.
Fire Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Special Fire-Fighting Procedures:	Wear proper personal protective equipment as listed in Section VIII.
Hazardous Combustion Products:	Decomposes to Sulfur dioxide at 1450°C/2642°F.
Explosion Hazards:	None Known.

Section VI Accidental Release Measures

Steps to be taken in the event of a spill or discharge: Remove by dry sweeping or vacuum. Avoid creating excessive dust. It is recommended that gloves and a mask be worn while cleaning the spill. If already mixed with water, scrape up and place in container. Wear appropriate protective equipment as described in Sections VII and VIII.

Disposal Procedures: Dispose of material in accordance with all applicable federal, state and local regulations. Can be disposed as an inert solid in a landfill. Slurry may plug drains.

Section VII Handling and Storage

Handling: Avoid contact with skin and eyes. Do not breathe dust. Use only in well ventilated areas. Wear appropriate eye and respiratory protection, including a NIOSH approved dust mask, if dust is generated. When using, do not eat or drink. Wash hands before eating, drinking or smoking.

Storage: Keep out reach of children. Keep the container tightly closed and dry. Store in a covered, dry climate controlled area, away from incompatibles listed in Section X.

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Section VIII Exposure Control

Material	WT (%)	OSHA PEL * (mg/m3)	ACGIH TLV*
Gypsum, Anhydrite or Gypsum/Anhydrite Blend	60-95	15(T)/5 (R)	10
Crystalline Silica	<0.025	0.1 (R)	0.025 (R)
Limestone	0-15	15(T)/5 (R)	10

*(T)- Total (R) – Respirable

Note: All ingredients of this product are included in (i) the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory and (ii) in the Canadian Domestic Substances List or the Canadian Non-Domestic Substances List.

When using product, provide local and general exhaust ventilation to keep airborne dust concentrations below exposure limits.

No TLV assigned to this mixture (see Section III). Minimize exposures in accordance with good hygiene practice.

Engineering controls: Ventilate to keep exposures below TLV requirements of the individual ingredients. General ventilation is expected to be satisfactory, Use local exhaust ventilation if necessary to control dust.

Respiratory Protection: None required where adequate ventilation conditions exist. In order to meet TLV requirements of individual ingredients and to control dusting conditions, provide general ventilation and local exhaust ventilation. Avoid creating dust. Wear a NIOSH/MSHA approved dust respirator in poorly ventilated areas and/or if TLV requirements of the individual ingredients is exceeded.

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Section IX Physical/Chemical Characteristics

Appearance:	White
Physical State:	Powder/Solid
Melting Point:	Not Applicable
Freezing Point:	Not Applicable
Odor:	Low
Odor Threshold:	Not Determined
Flash point:	Non-Combustible
Flammability Limits:	Not Applicable
Solubility(in water) (g/100g):	0.205
Initial Boiling Point:	Not Applicable
Boiling Range:	Not Applicable
Specific Gravity:	2.32-2.41
pH:	~7
Vapor Pressure:	Not Applicable
Vapor Density:	Not Applicable
Auto-Ignition Temperature:	None
Evaporation Rate:	Not Applicable
Partition Coefficient:	Not Applicable
Viscosity:	Not Applicable
Upper Flammability Limit:	Not Determined
Lower Flammability Limit:	Not Determined
Decomposition Temp:	1,450°C/2642°F

Section X Chemical Stability and Reactivity

Conditions of reactivity: Reacts with water and produces large amounts of heat (normal condition of use).

Chemical stability: Stable at normal storage conditions and temperature

Conditions to Avoid: Water, high humidity, and acids.

Hazardous decomposition products: May include, and are not limited to: calcium oxide, sulfur dioxide due to decomposition at 1450°C/2642°F.

Hazardous Polymerization: None known.

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Section XI Toxicological Information

Acute effects: The acute oral toxicity study [OECD TG 420] of calcium sulfate showed that this chemical did not cause any changes.

Chronic Effects/ Carcinogenicity: Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product; however, levels must be determined by in-house workplace hygiene testing.

In 1997, IARC classified inhaled crystalline silica as carcinogenic to humans categorizing it as a Group 1 agent. In this evaluation, IARC noted that carcinogenicity was not detected in all industrial circumstances studied, and may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. In 1992, NTP listed respirable crystalline silica among the substances "reasonably anticipated to be carcinogens".

Section XII Ecological Information

There are no known causes from this product that would harm the Ecology. The disposal of large quantities directly into waterways would be expected to cause significant aquatic life death.

Section XIII Disposal Considerations

Disposal Procedure: Dispose of material in accordance with all applicable federal, state and local regulations. Can be disposed as an inert solid in a landfill. Slurry may plug drains. Do not dispose of directly in waterways or sewers.

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Section XIV Transport Information

Department of Transportation (DOT) Requirements:	This product is not regulated as a hazardous material by the United States (DOT) Transportation regulations.
Canadian Transportation of Dangerous Goods:	Not regulated as dangerous goods.
UN#	None, Not regulated as dangerous goods.
UN Proper Shipping Name:	Not Applicable
ADNR:	None.
RID/ADR:	Not Classified.
Environmental Hazards:	None.
Annex II of MARPOL 73/78:	Not Applicable.
International Bulk Chemical code:	Not Applicable.

Section XV Regulatory Information

U.S. EPA;s Toxic Substance Control Act Chemical Substance Inventory:	Not Listed as reportable quantity or regulated quantity in SARA Title III Sections 302, 304, and 313, CAA Section 112(r) Regulated Chemicals for Accidental Release Prevention, CERCLA Hazardous Substances, and RCRA Hazardous Waste.
Canadian Controlled Product Regulations:	Crystalline Silica: IDL* Item #1406 Classification: D2A Limestone: WHMIS** Classification: D2A
European Union Directive 67/548/EEC (Annex III and IV):	R36, R37, R38, S37, S38, S39, and S51

*IDL Item: Canadian Hazardous Product Act Ingredient Disclosure List
** WHMIS: Workplace a Hazardous Safety Information System

U.S. Federal

TSCA

CAS# 7778-18-9 is listed on the TSCA Inventory.

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Section XVI Other Information

Precautionary Labeling: Warning: This product can release nuisance dust in handling or during use. Eye, skin, nose, throat, and upper respiratory irritation may occur with prolonged dust exposures. Direct, prolonged or repeated contact with the skin may cause irritation. Rubbing of this product against the skin can result in abrasions. Rinse with water until free of material to avoid abrasions, and then wash skin thoroughly with mild soap and water. May dry skin.

HMIS:	**NFPA:**	**Rating Scale:**
Health – 1	Health-1	Minimal Hazard=0
Flammability -0	Flammability-0	Slight Hazard=1
Physical Hazard-1	Reactivity-0	Moderate Hazard=2
Personal Protection-E	Serious Hazard=3	Extreme Hazard=4

Legend:

ACGIH	American Conference of Governmental Industrial Hygienists
CAA	Clean Air Act
CAS	Chemical Abstracts Service (Registry Number)
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CFR	Code of Federal Regulations
DOT	United States Department of Transportation
DSL	Canadian Domestic Substances List
EPA	United States Environmental Protection Agency
EPCRA	Emergency Planning & Community Right –to-know act
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
MSHA	Canadian Non-Domestic Substances List
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
OSHA	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act of 1986
TLV	Threshold Limit Value
UN/NA#	United Nations/North America number
WHMIS	Workplace Hazardous Material Information System

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