W.A. Hammond Drierite Co., LTD

Safety Data Sheet

1. PRODUCT AND COMPANY INDENTIFICATION

1.1 Product Identifiers

Product Name	:	Drierite, Indicating
Product Stock Numbers	:	21001, 21005, 21025, 22001, 22005, 22025, 23001, 23005, 23025, 24001, 24005, 24025, 24035, 26800, 26840, 26930, 27068, 27069, 27070, 40207, 40451. 50068
Manufacturer	:	W.A. Hammond Drierite Co., LTD.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses	:	Desiccant or Drying Agent

1.3 Details of the supplier of the safety data sheet

Company	:	W.A. Hammond Drierite Co., LTD. P.O. Box 460 Xenia, OH 45385 U.S.A.
Telephone	:	937-376-2927
Website	:	www.drierite.com

1.4 Emergency telephone number

Emergency Phone#	:	937-376-2927

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Eye Irritation (Category 2A), H319
Respiratory Sensitization (Category 1), H334
Skin Sensitization (Category 1), H317
Germ Cell Mutagenicity (Category 2), H341
Carcinogenicity (Category 2), H351
Reproductive Toxicity (Category 1B), H360
Acute Aquatic Toxicity (Category 2), H401
Chronic Aquatic Toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram 
Signal Word Danger

Hazard Statement(s)
H317 May cause an allergic skin reaction.

2.2 Continued

H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust, fumes, gas, mist, vapors, or fumes.
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection
P285	In case of inadequate ventilation wear respiratory protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Remove contacts, rinse cautiously with water for several minutes.
P308 + P313	If exposed or concerned: Seek medical advice.
P333 + P313	If skin irritation persists: Seek medical attention.
P337 + P313	If eye irritation persists: Seek medical attention.
P363	Wash contaminated clothing before reuse.
P405	Store in a secure location.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - None

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3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances

Indicating Drierite Contents : $CaSO_4$ ≥98% + $CoCl_2$ <2%

Non Hazardous Components

Component	Classification	Concentration
Calcium Sulfate		
CAS-No. 7778-18-9 **EC-No. 231-900-3**		≥98%

3.1 Continued

Hazardous Components

Component	Classification	Concentration
Cobalt Dichloride		
CAS-No. 7646-79-9 **EC-No. 231-589-4** **Index-No. 027-004-00-5**	Acute Tox. 4; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; Muta. 2; Carc. 1B; Repr. 1B; Aquatic Acute 1; Aquatic Chronic 1; H302, H317, H318, H334, H341, H350, H360, H410	<2%

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice
Move out of dangerous area. Consult a physician.

Inhalation
Move person into fresh air. Seek medical advice.

Skin Contact
Wash off with soap and water. If irritation develops consult a physician.

Eye Contact
Rinse thoroughly with water for at least 15 minutes. If irritation develops consult a physician.

Ingestion
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Sulfur Oxides, Hydrogen Chloride Gas, Cobalt/Cobalt Oxides, Calcium Oxide

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further Information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Remove without creating dust. Keep in suitable containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Moisture sensitive. Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat. 3/Toxic Hazardous materials or hazardous materials causing chronic effects.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control Parameters	Basis
Calcium Sulfate	7778-18-9	TWA	15.000000 mg/m3	USA. Occupational Exposure Limts (OSHA) – Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) – Table-Z-1 Limits for Air Contaminants
		TWA	10.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Nasal Symptoms		
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Gypsum is the dihydrate form & Plaster of Paris is the hemihydrate form.		
		TWA	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Gypsum is the dihydrate form & Plaster of Paris is the hemihydrate form.		
		TWA	10.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Nasal Symptoms		
Cobalt Dichloride	7646-79-9	TWA	0.020000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Pulmonary Function Asthma Myocardial Effects Substances for which there is a Biological Exposure Index or Indices (See BEI® section) Confirmed animal carcinogen with unknown relevance to humans		

8.2 Exposure Controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/Face Protection
Safety glasses with side-shields conforming to EN166. Use equipment for eye protection and approved under appropriate government standards such as NIOSH (US) or EN (EU).

Skin Protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Protective work clothing.

Respiratory Protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental Exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

A) Appearance	Form: Granular Color: Blue/Pink
B) Odor	No Data Available
C) Odor Threshold	No Data Available
D) pH	No Data Available
E) Melting Point/Freezing Point	No Data Available
F) Initial Boiling Point and Boiling Range	No Data Available
G) Flash Point	No Data Available
H) Evaporation Rate	No Data Available
I) Flammability (Solid, Gas)	No Data Available
J) Upper/Lower Flammability or Explosive Limits	No Data Available
K) Vapor Pressure	Not Applicable

9.1 Continued

L) Vapor Density	No Data Available
M) Relative Density	65 lb/cuft
N) Water Solubility	No Data Available
O) Partition Coefficient: N- Octanol/Water	No Data Available
P) Auto-Ignition Temperature	No Data Available
Q) Decomposition Temperature	No Data Available
R) Viscosity	No Data Available
S) Explosive Properties	No Data Available
T) Oxidizing Properties	No Data Available

9.2 Other Safety Information
No Data Available

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10. STABILITY AND REACTIVITY

10.1 Reactivity
No Data Available

10.2 Chemical Stability
Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions
No Data Available

10.4 Conditions to Avoid
Exposure to moisture may affect product quality.

10.5 Incompatible Materials
Oxidizing Agents, Alkali Metals, Ammonia (NH_3)

10.6 Hazardous Decomposition Products
SO_3 @ 1450 C° Cl_2 @ 318 C°
In the event of a fire: See section 5

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11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute Toxicity No Data Available

Inhalation: No Data Available

Dermal: No Data Available

Skin Corrosion/Irritation
No Data Available

11.1 Continued

Serious Eye Damage/Eye Irritation
No Data Available

Respiratory or Skin Sensitisation
No Data Available

Germ Cell Mutagenicity
No Data Available

Carcinogenicity

IARC:	2B – Group 2B: Possibly carcinogenic to humans (Cobalt dichloride)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity
No Data Available

Specific Target Organ Toxicity – Single Exposure
No Data Available

Specific Target Organ Toxicity – Repeated Exposure
No Data Available

Aspiration Hazard
No Data Available

Additional Information
RTECS: Not Available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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12. ECOLOGICAL INFORMATION

12.1 Toxicity
No Data Available

12.2 Persistence and Degradability
No Data Available

12.3 Bioaccumulative Potential
No Data Available

12.4 Mobility in Soil
No Data Available

12.5 Results of PBT and vPvB Assessment
PBT/vPvB Assessment not Available as chemical safety assessment not required/ not conducted.

12.6 Other Adverse Effects
Toxic to aquatic life with long lasting effects.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSABLE CONSIDERATIONS

13.1 Waste Treatment Methods

Product
These disposal guidelines are intended for the disposal of catalog size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state, and federal regulations or contract with a licensed chemical disposal agency.

Contaminated Packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not Dangerous Goods

IMDG
UN number: 3077 Class: 9 Packing Group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cobalt dichloride) Marine Pollutant: Yes Product falls under Special Provision A197 which allows product to be shipped “not restricted”. **See further information**

IATA
UN number: 3077 Class: 9 Packing Group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cobalt dichloride) Marine Pollutant: Yes Product falls under Special Provision A197 which allows product to be shipped “not restricted”. **See further information**

Further Information
**Special Provision A197-is a special provision assigned to environmentally hazardous substances, UN 3077 and UN 3082 that allows these substances to be shipped as “not restricted” provided that the net quantity in any receptacle does not exceed 5 kg per package and the packaging used meets defined standards.

15. REGULATORY INFORMATION

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: The following components are subject to reporting levels established by SARA Title III, Section 313:

Cobalt Dichloride	CAS No. 7646-79-9	Revision Date: 2009-07-17

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components

Calcium Sulfate	CAS No. 7778-18-9	Revision Date: 1994-04-01

Section 15 Continued

Pennsylvania Right to Know Components

Calcium Sulfate	CAS-No. 7778-18-9	Revision Date: 1994-04-01

New Jersey Right to Know Components

Calcium Sulfate	CAS-No. 7778-18-9	Revision Date: 1994-04-01

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

U.S. Federal

TSCA

CAS# 7646-79-9 is listed on the TSCA Inventory.
CAS# 7778-18-9 is listed on the TSCA Inventory.

WHMIS Rating

Hazard Class D-2A Very Toxic Material

Pictogram 

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16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H319	Causes serious eye irritation.

HMIS Rating

Health Hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard:	0

NFPA Rating

Health Hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further Information

 The above information is believed to be correct but does not purport be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. W.A. Hammond Drierite Co., LTD. and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.drierite.com.

Preparation Information:

W.A. Hammond Drierite Co., LTD. P.O. Box 460 Xenia, OH 45385 Revised 01-18-16