1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: Drierite, Indicating

Product Stock Numbers: 21001, 21005, 22001, 22005, 23001, 23005, 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

3. COMPOSITION/INFORMATION ON INGREDIENTS
3.1 Substances

Indicating Drierite Contents : CaSO4 ≥98% + CoCl2 <2%

Non Hazardous Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Sulfate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS-No. 7778-18-9</td>
<td></td>
<td>≥98%</td>
</tr>
<tr>
<td>EC-No. 231-900-3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3.1 Continued

Hazardous Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cobalt Dichloride</td>
<td>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</td>
<td>&lt;2%</td>
</tr>
<tr>
<td>CAS-No. 7646-79-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC-No. 231-589-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Index-No. 027-004-00-5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

---

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.

---

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 **Control Parameters**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control Parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Sulfate</td>
<td>7778-18-9</td>
<td>TWA</td>
<td>15.000000 mg/m³</td>
<td>USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>5.000000 mg/m³</td>
<td>USA. Occupational Exposure Limits (OSHA) – Table-Z-1 Limits for Air Contaminants</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>10.000000 mg/m³</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
</tr>
<tr>
<td>Remarks</td>
<td>Nasal Symptoms</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5.000000 mg/m³</td>
<td>USA. NIOSH Recommended Exposure Limits</td>
<td>Gypsum is the dihydrate form &amp; Plaster of Paris is the hemihydrate form.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>10.000000 mg/m³</td>
<td>USA. NIOSH Recommended Exposure Limits</td>
<td>Gypsum is the dihydrate form &amp; Plaster of Paris is the hemihydrate form.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>10.000000 mg/m³</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
<td>Gypsum is the dihydrate form &amp; Plaster of Paris is the hemihydrate form.</td>
</tr>
<tr>
<td>Remarks</td>
<td>Nasal Symptoms</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cobalt Dichloride</td>
<td>7646-79-9</td>
<td>TWA</td>
<td>0.020000 mg/m³</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
</tr>
</tbody>
</table>

Remarks: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>A) Appearance</th>
<th>Form: Granular</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Color: Blue/Pink</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B) Odor</th>
<th>No Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>C) Odor Threshold</td>
<td>No Data Available</td>
</tr>
<tr>
<td>D) pH</td>
<td>No Data Available</td>
</tr>
<tr>
<td>E) Melting Point/Freezing Point</td>
<td>No Data Available</td>
</tr>
<tr>
<td>F) Initial Boiling Point and Boiling Range</td>
<td>No Data Available</td>
</tr>
<tr>
<td>G) Flash Point</td>
<td>No Data Available</td>
</tr>
<tr>
<td>H) Evaporation Rate</td>
<td>No Data Available</td>
</tr>
<tr>
<td>I) Flammability (Solid, Gas)</td>
<td>No Data Available</td>
</tr>
<tr>
<td>J) Upper/Lower Flammability or Explosive Limits</td>
<td>No Data Available</td>
</tr>
<tr>
<td>K) Vapor Pressure</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
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

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 (NH3)

10.6  **Hazardous Decomposition Products**
SO3 @ 1450 °C  Cl2 @ 318 °C
In the event of a fire: See section 5

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.

---

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 IMDG Code 3.3, Special Provision 969 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.

***IMDG Code 3.3, Special Provision 969 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

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
Copyright 2019 W.A. Hammond Drierite Co., LTD. License granted to make unlimited paper copies for internal use only. 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 03-22-2019