W.A. Hammond Drierite Co., LTD

Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name   :   Drierite, Du-Cal

Product Stock Numbers  :  41050, 42050, 43050, 40451, 40207
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
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     :   Warning

Hazard Statement(s)
H319           :   Causes serious eye irritation.

Precautionary Statement(s)
P264             :   Wash skin thoroughly after handling.
P280     :   Wear protective gloves/eye protection/face protection
P305 + P351 + P338   :   IF IN EYES: Remove contacts, rinse cautiously with
                        water for several minutes.
P337 + P313     :   If eye irritation persists: Seek medical attention.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - None
3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances

Du-Cal Drierite Contents : \( \text{CaSO}_4 \geq 96\% + \text{CaCl}_2 < 4\% \)

### 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>( \geq 96% )</td>
</tr>
<tr>
<td>CAS-No. 7778-18-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC-No. 231-900-3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Hazardous Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Chloride</td>
<td>Eye Irritant. 2A; H319</td>
<td>(&lt; 4%)</td>
</tr>
<tr>
<td>CAS-No. 10043-52-4</td>
<td></td>
<td></td>
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<tr>
<td>EC-No. 233-140-8</td>
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<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
Hydrogen chloride gas, 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
Do not let product enter drains.

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.

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

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

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.

Full Contact
Material: Nitrile Rubber
Minimum Layer Thickness: 0.11mm
Break Through Time: 480 min
Material Tested: Dermatril ® (KCL 740 / Aldrich Z677272, Size M)
8.2 Continued

Splash Contact
Material: Nitrile Rubber
Minimum Layer Thickness: 0.11mm Break
Through Time: 480 min
Material Tested: Dermatril ® (KCL 740 / Aldrich Z677272, Size M)

Data Source:
KCL GmbH, D-36124 Eichenzell
Phone: +49(0)6659 87300
Email: sales@kcl.de
Test Method: EN374

If used in solution or mixed with other substances and under conditions which differ from EN374, Contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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
Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on Basic Physical and Chemical Properties

A) Appearance Form: Granular
Color: White

B) Odor No Data Available

C) Odor Threshold No Data Available

D) pH No Data Available

E) Melting Point/Freezing Point Melting Point/Range: 772 °C (1,422 °F)-lit.

F) Initial Boiling Point and Boiling Range 1,670 °C (3,038 °F)

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
9.1 **Continued**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>K) Vapor Pressure</td>
<td>0.01 hPa (0.01 mmHg) at 20 °C (68 °F)</td>
</tr>
<tr>
<td>L) Vapor Density</td>
<td>No Data Available</td>
</tr>
<tr>
<td>M) Relative Density</td>
<td>65 lb/cuft</td>
</tr>
<tr>
<td>N) Water Solubility</td>
<td>No Data Available</td>
</tr>
<tr>
<td>O) Partition Coefficient: N-Octanol/Water</td>
<td>No Data Available</td>
</tr>
<tr>
<td>P) Auto-Ignition Temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Q) Decomposition Temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>R) Viscosity</td>
<td>No Data Available</td>
</tr>
<tr>
<td>S) Explosive Properties</td>
<td>No Data Available</td>
</tr>
<tr>
<td>T) Oxidizing Properties</td>
<td>No Data Available</td>
</tr>
</tbody>
</table>

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**
No Data Available

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**
Strong Acids, Borane/Boron Oxides, Zinc, Calcium Oxide, Methyl Vinyl Ether, Calcium Chloride is attacked by Bromine Trifluoride.

10.6 **Hazardous Decomposition Products**
Other decomposition products - No Data Available
In the event of a fire: See section 5

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11. **TOXICOLOGICAL INFORMATION**

11.1 **Information on Toxicological Effects**

**Acute Toxicity**
LD50 Oral – Rat – 2,301 mg/kg
(OECD Test Guideline 401)

Inhalation: No Data Available
Dermal: No Data Available

11.1 Continued

Skin Corrosion/Irritation
Skin: Rabbit
Result: No Skin Irritation

Serious Eye Damage/Eye Irritation
Eyes: Rabbit
Result: Moderate Eye Irritation
(OECD Test Guideline 405)

Respiratory or Skin Sensitisation
No Data Available

Germ Cell Mutagenicity
Rat
Unscheduled DNA Synthesis

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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: EV9800000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION
12.1 Toxicity

Calcium Chloride Component Only, Composition <4%
Toxicity to Fish: LC50 – Lepomis Macrochirus – 10,650 mg/l – 96 h

Toxicity to Daphnia and Other Aquatic Invertebrates
EC50 – Daphnia Magma (Water Flea) – 2,400 mg/l – 48 h

12.2 Persistence and Degradability
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**
No Data Available

13. **DISPOSABLE CONSIDERATIONS**

13.1 **Waste Treatment Methods**

**Product**
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated Packaging**
Dispose of as unused product.

14. **TRANSPORT INFORMATION**

**DOT (US)**
Not Dangerous Goods

**IMDG**
Not Dangerous Goods

**IATA**
Not Dangerous Goods

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: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**
Acute Health Hazard

**Massachusetts Right to Know Components**
No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components**
Calcium Chloride: CAS-No. 10043-52-4 Revision Date: 2009-07-17

**New Jersey Right to Know Components**
Section 15 Continued

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# 10043-32-4 is listed on the TSCA Inventory.
CAS# 7778-18-9 is listed on the TSCA Inventory.

WHMIS Rating
Hazard Class D-2B 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
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Preparation Information:
W.A. Hammond Drierite Co., LTD. P.O. Box 460 Xenia, OH 45385 Revised 01-01-19