

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 : CaSO₄ ≥96% + CaCl₂ <4%

Non Hazardous Components

Component	Classification	Concentration
Calcium Sulfate		
CAS-No. 7778-18-9 EC-No. 231-900-3		≥96%

Hazardous Components

Component	Classification	Concentration
Calcium Chloride		
CAS-No. 10043-52-4 EC-No. 233-140-8	Eye Irritant. 2A; H319	<4%

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

K) Vapor Pressure	0.01 hPa (0.01 mmHg) at 20 °C (68 °F)
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

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

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

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

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

Calcium Chloride

CAS-No. 10043-52-4

Revision Date: 2009-07-17

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:

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