



SIGMA-ALDRICH

## Material Safety Data Sheet

Date Printed: 05/21/2004  
Date Updated: 03/05/2004  
Version 1.40

### Section 1 - Product and Company Information

**Product Name** Drierite®, 8 mesh, with indicator.  
**Product Number** 238988  
**Brand** Aldrich Chemical

**Company** Sigma-Aldrich  
**Street Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 314 771 5765  
**Fax:** 800 325 5052

**Emergency Phone:** 414 273 3850 Ext. 5996

### Section 2 - Composition/Information on Ingredient

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>	<u>EC no</u>	<u>Annex I Index Number</u>
DRIERITE, 4 MESH, WITH INDICATOR	None	Yes		
<b>Ingredient Name</b>	<b>CAS #</b>	<b>Percent</b>	<b>SARA 313</b>	
CALCIUM SULFATE ANHYDROUS	7778-18-9	97.000 %	No	
COBALT CHLORIDE	7646-79-9	3.000 %	Yes	
<b>Formula</b>				
<b>Synonyms</b>				

### Section 3 - Hazards Identification

#### Emergency Overview

Toxic. Dangerous for the environment.  
May cause cancer by inhalation. May cause sensitization by inhalation and skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Target organ(s): Heart. Male reproductive system.

**HMIS Rating**  
Health: 3\*      Flammability: 0      Reactivity: 1

**NFPA Rating**  
Health: 3      Flammability: 0      Reactivity: 1

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

#### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

#### Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

#### Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### Section 5 - Fire Fighting Measures

**Autoignition Temp:** N/A

#### Firefighting

##### Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

##### Specific Hazard(s)

Emits toxic fumes under fire conditions.

### Section 6 - Accidental Release Measures

#### Procedure to be Followed in Case of Leak or Spill

Evacuate area.

#### Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Wear disposable coveralls and discard them after use.

#### Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### Section 7 - Handling and Storage

#### Handling

##### User Exposure

Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

#### Storage

##### Suitable

Keep tightly closed. Store in a cool dry place.

#### Special Requirements

Hygroscopic.

### Section 8 - Exposure Controls / PPE

#### Engineering Controls

Use only in a chemical fume hood. Safety shower and eye bath.

#### Personal Protective Equipment

##### Respiratory

Government approved respirator in nonventilated areas and/or for exposure above the TLV or PEL.

##### Hand

Compatible chemical-resistant gloves.

##### Eye

Chemical safety goggles.

**General Hygiene Measures**

Wash contaminated clothing before reuse. Wash thoroughly after handling.

**Section 9 - Physical/Chemical Properties****Appearance**

**Physical State**  
Solid

**Molecular Weight:** N/A

pH N/A  
BP/BP Range N/A  
MP/MP Range N/A  
Freezing Point N/A  
Vapor Pressure N/A  
Vapor Density N/A  
Saturated Vapor Conc. N/A  
SG/Density N/A  
Bulk Density N/A  
Odor Threshold N/A  
Volatile% N/A  
VOC Content N/A  
Water Content N/A  
Solvent Content N/A  
Evaporation Rate N/A  
Viscosity N/A  
Partition Coefficient N/A  
Decomposition Temp. N/A  
Flash Point °F N/A  
Flash Point °C N/A  
Explosion Limits N/A

Flammability N/A  
Autoignition Temp N/A  
Solubility N/A

N/A = not available

**Section 10 - Stability and Reactivity****Stability**

Stable

Stable.

**Conditions to Avoid**

Protect from moisture.

**Materials to Avoid**

Strong oxidizing agents, Alkali metals.

**Hazardous Decomposition Products****Hazardous Decomposition Products**

Nature of decomposition products not known.

**Hazardous Polymerization****Hazardous Polymerization**

Will not occur.

**Section 11 - Toxicological Information****Route of Exposure****Skin Contact**

May cause skin irritation.

**Skin Absorption**

May be harmful if absorbed through the skin.

**Eye Contact**

May cause eye irritation.

**Inhalation**

Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

**Ingestion**

May be harmful if swallowed.

**Sensitization****Respiratory**

May cause allergic respiratory reaction.

**Skin**

May cause allergic skin reaction.

**Target Organ(s) or System(s)**

Heart. Blood. Kidneys. Pancreas. Thyroid. Male reproductive system.

**Signs and Symptoms of Exposure**

Large amounts of cobalt(II) chloride depress erythrocyte production which may lead to death in children.

**RTECS Number:** N/A

**Chronic Exposure - Carcinogen**

Result: This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

**Section 12 - Ecological Information**

No data available.

**Section 13 - Disposal Considerations****Appropriate Method of Disposal of Substance or Preparation**

Contact a licensed professional waste disposal service to dispose of this material.

Observe all federal, state, and local environmental regulations.

**Section 14 - Transport Information****DOT**

**Proper Shipping Name:** Environmentally hazardous substances, solid, n.o.s.

**UN#:** 3077

**Class:** 9

**Packing Group:** Packing Group III

**Hazard Label:** Class 9

**PIH:** Not PIH

**IATA**

**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s

**IATA UN Number:** 3077

**Hazard Class:** 9

**Packing Group:** III

## Section 15 - Regulatory Information

### EU Additional Classification

Symbol of Danger: T N

#### Indication of Danger

Toxic, Dangerous for the environment.

**Risk Statements** R: 49 42/43 51/53

May cause cancer by inhalation. May cause sensitization by inhalation and skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Statements** S: 53 22 36/37 45 60

Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. Do not breathe dust. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste.

### US Classification and Label Text

#### Indication of Danger

Toxic, Dangerous for the environment.

#### Risk Statements

May cause cancer by inhalation. May cause sensitization by inhalation and skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety Statements

Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. Do not breathe dust. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid release to the environment. Refer to special instructions/safety data sheets.

#### US Statements

Target organ(s): Heart. Male reproductive system.

### United States Regulatory Information

SARA Listed: Yes

Notes: This product is or contains a component that is subject to SARA313 reporting requirements.

### Canada Regulatory Information

#### WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

## Section 16 - Other Information

### Disclaimer

For R&D use only. Not for drug, household or other uses.

### Warranty

The above information is believed to be correct but does not purport to 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. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

