

MATERIAL SAFETY DATA SHEET (MSDS)

EM Science
M A T E R I A L S A F E T Y D A T A S H E E T

Section I Product Identification and Use

Manufacturer: EM SCIENCE A Division of EM Industries P.O. Box 70 480 Democrat Road Gibbstown, N.J. 08027	For More Information Call 856-423-6300 Technical Service Monday - Friday; 8:00 AM to 5:00 PM In Case of Emergency Call 800-424-9300 CHEMTREC (USA) 416-201-6383 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week
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Product Name: Drierite (Regular and Indicating)
Product Code(s): B26998, B27625,
Chemical Name/Other Name: Drierite (Regular and Indicating)
Chemical Formula: Regular:CaSO₄ Indicating:CaSO₄.Cl₂Co
Chemical Family: Inorganic Salt
TDG Shipping Name/UN: Not regulated
TDG Classification/Packing group: Not regulated
Use: Desiccating agent

Section II Hazardous Ingredients

Chemical name	CAS No.	TLV (mg/m ³)	%
Regular-Calcium sulfate	7778-18-9	Not established	100
Indicating-Calcium sulfate	7778-18-9	Not established	97
-Cobalt chloride	1332-82-7	0.3	3

Section III Physical Data

Physical State: Solid
Appearance and Odour: Regular: white irregular chips Indicating: white and blue chips
Odour Threshold: Not applicable
Specific Gravity: 1.870
Vapour Pressure: Not applicable
Vapour Density: Not applicable
Evaporation Rate: Not applicable
Boiling Point: Not applicable
Freezing Point: 1450°C
pH: Not available
Coefficient of water/oil distribution: Not available

Section IV Fire or Explosion Hazard

Conditions of Flammability: Nonflammable

Extinguishing Media: Use an extinguisher appropriate to the surrounding material that is burning

Flash point / method: Not applicable

UEL: Not applicable

LEL: Not applicable

Autoignition Temperature: Not applicable

Hazardous Combustion Products: None

Explosion data - sensitivity to mechanical impact: No

- **sensitivity to static discharge:** No

Section V Reactivity Data

Conditions of instability: Normally stable.

Incompatibilities: Strong oxidizing agents, strong acids.

Conditions of reactivity: Normally stable

Hazardous decomposition products: Thermal decomposition may produce chlorine.

Section VI Toxicological Properties / Health Hazard Data

Route of entry:

-**skin contact:** Mild irritation (abrasive)

-**skin absorption:** No risk of skin absorption

-**eye contact:** Mild irritation (abrasive)

-**inhalation:** Mild irritation (dust nuisance)

-**ingestion:** Indicator type may be harmful in very large amounts

LC₅₀: Not available

LD₅₀: Not available

Exposure Limits: 0.1 mg/m³ (CO), 0.05 mg/m³ (CoCl₂)

Effects of Acute Exposure: Ingestion may cause vomiting, diarrhea and a sensation of hotness. Irritation of the eye, skin and respiratory tract is caused by the cobalt chloride content.

Effects of Chronic Exposure: Excessive inhalation and/or ingestion of cobalt salts may affect the kidneys, lungs and thyroid. Overexposure to cobalt compounds may cause nose and throat irritation and an allergic skin rash.

Irritancy: No information available

Sensitization to Product: No information available

Carcinogenicity: No information available

Reproductive Toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Toxicologically Synergistic Products: None known

Section VII First aid measures

Skin: Flush the contact area with lukewarm running water for at least 15 minutes. Remove contaminated clothing, taking care not to spread the chemical. If contamination is extensive, remove clothing under running water. Discard or decontaminate clothing under running water. Discard or decontaminate clothing before use. Unless contact has been slight, seek medical attention. Seek medical attention if irritation persists.

Eye: Flush the contaminated eye(s) for at least 15 minutes with lukewarm running water, holding the eyelids open. Take care not to rinse contaminated

water into the non-affected eye. Always seek medical attention for accidents involving the eyes.

Inhalation: Take proper precautions to ensure your own safety before attempting rescue. Remove source of contamination or move victim to fresh air. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Ingestion: Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Do not induce vomiting. Have victim drink 200-400 ml of water to dilute. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Section VIII Preventive Measures

Engineering Controls: Engineering control methods to reduce hazardous exposures are preferred. Methods include mechanical ventilation (dilution and local exhaust), process or personnel enclosure, control of process conditions, and process modification. Administrative controls and personal protective equipment may also be required.

Personal protective equipment:

- gloves:** Rubber or plastic as appropriate
- respiratory protection:** Dust mask
- eye protection:** Side shield safety glasses or goggles
- clothing:** Plastic apron, sleeves and boots as appropriate

Storage Requirements: Store in suitable labelled containers. Keep containers tightly closed when not in use and when empty. Protect from damage. Store in a cool, dry, well-ventilated area, out of direct sunlight.

Handling Procedures and Equipment: Follow routine safe handling procedures.

Leak or Spill Clean-up: Before dealing with spillages take necessary protective measures, inform others to keep at a safe distance and, for flammable materials, shut off all possible sources of ignition. Transfer carefully into container and arrange removal by disposals company. Wash site of spillage thoroughly with water and detergent.

Disposal: Follow all federal, provincial and local regulations for disposal. Use only licensed disposal and waste hauling companies.

Special Shipping Information: Follow all TDG regulations and see classification in Section I

Section IX Preparation Information

Prepared by: Technical Affairs Department, BDH Inc.,
Toronto, Ontario
(416) 255-8521

For questions contact: Regulatory Affairs Department, EM Science
Gibbstown, NJ
(856) 423-6300

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Note: This product is not controlled by WHMIS.

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