

W.A. HAMMOND DRIERITE COMPANY MANUFACTURERS  
DRIERITE, "THE VERSATILE DESICCANT"  
CONSULTING AND ENGINEERING SERVICE DRYING SOLIDS, LIQUIDS, GASES  
MATERIAL SAFETY DATA SHEET  
IDENTITY: INDICATING DRIERITE CONTENTS: CALCIUM SULFATE 97%, COBALT CHLORIDE 3%  
SECTION I

MANUFACTURER'S NAME: W.A. HAMMOND DRIERITE COMPANY  
ADDRESS: 138 DAYTON AVENUE, P.O. BOX 460, XENIA, OHIO 45385  
EMERGENCY TELEPHONE: CHEMTREC 1-800-424-9300  
TELEPHONE NUMBER FOR INFORMATION: 1-513-376-2927  
DATE PREPARED : 5-9-86 REVIEWED : 7/12/89

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| HAZARDOUS COMPONENTS<br>(CHEMICAL IDENTITY) | COMMON NAME     | OSHA PEL<br>(MG/M3) | ACGIH TLV<br>(MG/M3) | C.A.S. NO. | % |
|---|-----------------|---------------------|----------------------|------------|---|
| COBALTOUS CHLORIDE<br>(AS COBALT)           | COBALT CHLORIDE | 0.1                 | 0.05*                | 1332-82-7  | 3 |

\* RECOMMENDED

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

|                       |                          |                          |        |
|-----------------------|--------------------------|--------------------------|--------|
| BOILING POINT         | : N/A                    | SPECIFIC GRAVITY (H2O=1) | : 1.87 |
| VAPOR PRESSURE (MMHG) | : N/A                    | MELTING POINT            | : N/A  |
| VAPOR DENSITY (AIR=1) | : N/A                    | EVAPORATION RATE         |        |
| SOLUBILITY IN WATER   | : 0.3 G/100ML            | (BUTYL ACETATE=1)        | : N/A  |
| APPEARANCE AND ODOR   | : BLUE GRANULES, NO ODOR |                          |        |

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

|                                    |         |                       |     |     |     |
|------------------------------------|---------|-----------------------|-----|-----|-----|
| FLASH POINT (METHOD)               | : N/A   | FLAMMABLE LIMITE: LEL | N/A | UEL | N/A |
| EXTINGUISHING MEDIA                | : WATER |                       |     |     |     |
| SPECIAL FIREFIGHTING PROCEDURES    | : N/A   |                       |     |     |     |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | : N/A   |                       |     |     |     |

SECTION V - REACTIVITY DATA

|  |   |
|--|---|
| STABILITY                              | : STABLE; CONDITIONS TO AVOID: N/A            |
| INCOMPATIBILITY (MATERIALS TO AVOID)   | : STRONG OXIDIZING AGENTS                     |
| HAZARDOUS DECOMPOSITION OR BY-PRODUCTS | : THERMAL DECOMPOSITION MAY PRODUCE CHLORINE. |
| HAZARDOUS POLYMERIZATION               | : WILL NOT OCCUR                              |
| CONDITIONS TO AVOID                    | : N/A   |

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION !X! SKIN ! ! INGESTION ! !  
CARCINOGENICITY: NTP: NO; IARC MONOGRAPHS: NO; OSHA REGULATED: NO  
HEALTH HAZARDS (ACUTE & CHRONIC) / SIGNS AND SYMPTOMS OF EXPOSURE:  
THIS PRODUCT CONTAINS 3% COBALT CHLORIDE WHICH CAUSES EYE IRRITATION AND  
MAY CAUSE SKIN AND UPPER RESPIRATORY TRACT IRRITATION. OVEREXPOSURE TO  
COBALT COMPOUNDS MAY CAUSE NOSE AND THROAT IRRITATION AND AN ALLERGIC SKIN  
RASH. THEY ARE MILDLY IRRITATING TO THE EYES AND IF INGESTED, MAY CAUSE  
VOMITING, DIARRHEA AND A SENSATION OF HOTNESS. EXCESSIVE INHALATION AND/OR  
INGESTION OF COBALT SALTS MAY AFFECT THE KIDNEYS, LUNGS, AND THYROID.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:  
RESPIRATORY SYSTEM CONDITIONS AND SKIN DISEASES.

EMERGENCY AND FIRST AID PROCEDURES:  
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRA  
TION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN.  
CALL A PHYSICIAN. IF SWALLOWED, GIVE TWO GLASSES OF WATER AND INDUCE  
VOMITING IMMEDIATELY. CALL A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN  
UNCONSCIOUS PERSON. IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY  
OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN.

DOC 3

PAGE 2

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
VENTILATE AREA OF SPILL. COLLECT MATERIAL INTO APPROPRIATE CONTAINERS FOR  
REUSE OR DISPOSAL. MATERIAL MAY ALSO BE FLUSHED WITH WATER TO A WASTEWATER  
TREATMENT SYSTEM.

WASTE DISPOSAL METHOD:  
DISPOSE IN CLOSED CONTAINERS, AT AN APPROVED LANDFILL, IN ACCORDANCE WITH  
LOCAL, STATE AND FEDERAL REGULATIONS. MATERIAL MAY ALSO BE FLUSHED WITH  
WATER TO A WASTEWATER TREATMENT SYSTEM.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
KEEP IN CLOSED CONTAINERS. AVOID GENERATING DUST.

OTHER PRECAUTIONS:  
AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING DUST. WASH

THOROUGHLY AFTER HANDLING.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: NIOSH/OSHA APPROVED FOR DUST.
VENTILATION : SUFFICIENT TO MAINTAIN OSHA PEL.
PROTECTIVE GLOVES : IMPERVIOUS
EYE PROTECTION : SIDE SHIELD SAFETY GLASSES OR GOGGLES.
OTHER PROTECTIVE CLOTHING & EQUIPMENT: SAFETY SHOWERS AND EYEWASHES.
WORK/HYGIENIC PRACTICES: GOOD HOUSEKEEPING PROCEDURES SHOULD BE FOLLOWED TO MINIMIZE DUST.

SECTION IX - REFERENCES

SHEPHERD CHEMICAL COMPANY - MSDS FOR COBALT CHLORIDE
HALL CHEMICAL COMPANY - MSDS FOR COBALT CHLORIDE
U.S. DEPARTMENT OF LABOR - OSHA FORM APPROVED OMB NO. 1218-0072
OSHA HAZARD COMMUNICATION STANDARD - 29 CFR 1910.1200

ALTHOUGH THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN (HEREINAFTER "INFORMATION") ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT AS OF THE DATE HEREOF, THE W.A. HAMMOND DRIERITE COMPANY MAKES NO REPRESENTATIONS AS TO THE COMPLETENESS OR ACCURACY THEREOF. INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSES PRIOR TO USE. IN NO EVENT WILL THE W.A. HAMMOND DRIERITE COMPANY BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OR MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

LAST PAGE

W.A. HAMMOND DRIERITE COMPANY MATERIAL SAFETY DATA SHEET
MANUFACTURERS

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CONSULTING AND ENGINEERING SERVICE
DRYING SOLIDS, LIQUIDS, GASES

IDENTITY: INDICATING DRIERITE
CONTENTS: CALCIUM SULFATE 97% C.A.S.# 7778-18-9
COBALT CHLORIDE 3% C.A.S.# 7646-79-9

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DATE PREPARED: 1-3-92

HAZARDOUS COMPONENTS table with columns: (CHEMICAL IDENTITY), COMMON NAME, OSHA PEL (MG/M3), ACGIH TLV (MG/M3), C.A.S.#, %

\* RECOMMENDED

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS
BOILING POINT: N/A SPECIFIC GRAVITY (H2O=1): 1.87
VAPOR PRESSURE (MMHG): N/A MELTING POINT: N/A
VAPOR DENSITY (AIR=1): N/A EVAPORATION RATE\*: N/A
SOLUBILITY IN WATER: 0.3G/100ML
APPEARANCE AND ODOR: BLUE GRANULES, NO ODOR

\*(BUTYL ACETATE=1)

SECTION IV - FIRE AND EXPLOSION DATA  
FLASH POINT (METHOD): N/A FLAMMABLE LIMITS: LEL; N/A UEL; N/A  
EXTINGUISHING MEDIA: WATER  
SPECIAL FIREFIGHTING PROCEDURES: N/A  
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A  
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SECTION V - REACTIVITY DATA  
STABILITY: STABLE.  
CONDITIONS TO AVOID: N/A  
INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS  
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: THERMAL DECOMPOSITION MAY PRODUCE  
CHLORINE.  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.  
CONDITIONS TO AVOID: N/A.  
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SECTION VI - HEALTH AND HAZARD DATA  
ROUTE(S) OF ENTRY: INHALATION.  
CARCINOGENICITY: NTP: NO IARC MONOGRAPHS: NO OSHA REGULATED: NO

MATERIAL SAFETY DATA SHEET PAGE 2  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND SHIPPING:  
KEEP IN CLOSED CONTAINERS. AVOID GENERATING DUST.

OTHER PRECAUTIONS:  
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SECTION VIII - CONTROL MEASURES  
RESPIRATORY PROTECTION: NIOSH/OSHA APPROVED FOR DUST.  
VENTILATION: SUFFICIENT TO MAINTAIN OSHA PEL.  
PROTECTIVE GLOVES: IMPERVIOUS.  
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PAGE 3

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