

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 (CHEMICAL IDENTITY)	COMMON NAME	OSHA PEL (MG/M3)	ACGIH TLV (MG/M3)	C.A.S. NO.	%
COBALTOUS CHLORIDE (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.

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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

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

* RECOMMENDED

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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
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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

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STATE AND FEDERAL REGULATIONS. MATERIAL MAY ALSO BE FLUSHED WITH WATER TO A
WASTEWATER TREATMENT SYSTEM.

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

OTHER PRECAUTIONS:
AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING DUST. WASH
THOROUGHLY AFTER HANDLING.
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SECTION VIII - CONTROL MEASURES
RESPIRATORY PROTECTION: NIOSH/OSHA APPROVED FOR DUST.
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