

W.A. HAMMOND DRIERITE COMPANY
 MANUFACTURER
 DRIERITE, "THE VERSATILE DESICCANT"
 CONSULTING AND ENGINEERING SERVICE
 DRYING SOLIDS, LIQUIDS, AND GASES

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

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: 3/1/93

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*	7646-79-9	3

*RECOMMENDED

** THIS PRODUCT CONTAINS MATERIAL REPORTABLE UNDER SARA SECTION 313

SECTION III - PHYSICAL/CHEMICAL CHARACTERISITICS

BOILING POINT: N/A SPECIFIC GRAVITY (H2O=1): 1.87
 VAPOR PRESSURE (MM HG): N/A MELTING POINT: N/A
 VAPOR DENSITY (AIR=1): N/A EVAPORATION RATE:
 SOLUBILITY IN WATER: 0.3G/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 LIMITS: 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: X UNSTABLE CONDITIONS TO AVOID: N/A
 INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AGENTS
 HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: THERMAL DECOMPOSITION MAY
 PRODUCE CHLORINE.
 HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL OT OCCUR: X
 CONDITIONS TO AVOID: N/A

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALTION 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 NIHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICAL RESPIRATION,
 PREFERABLY MOUTH-TO -MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A
 PHYSICIAN. IF SWALLOWED, GIVE TOW GLASSES OF WATER AND INDUCE VOMITING IMMED-
 IATELY. CALL A PHYSICIAN.NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
 IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES.
 CALL A PHYSICIAN.

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/MSHA APPROVED FOR DUST.

VENTILATION: SUFFICIENT TO MAINTAIN OSHA PEL.

PROTECTIVE GLOVES: IMPERVIOUS

EYE PROTECTION: SIDE SHIELD SAFETY GLASSES OR GOGGLES

OTHER PROTECTIVE CLOTHING AND EQUIPMENT: SAFETY SHOWERS AND EYEWASHES.

WORK/HYGIENIC PRACTICES: GOOD HOUSEKEEPING PROCEDURES SHOULD BE FOLLOWED TO MINIMIZE DUST.

SECTION IX - REFERENCES

SHEPPARD 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

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MANUFACTURERS
DRIERITE, "THE VERSATILE DESICCANT"
CONSULTING AND ENGINEERING SERVICE
DRYING SOLIDS, LIQUIDS, GASES

MATERIAL SAFETY DATA SHEET

IDENTITY: REGULAR DRIERITE
CONTENTS: CALCIUM SULFATE 100% C.A.S.# 7778-18-9

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: 2-8-91

HAZARDOUS COMPONENTS

(CHEMICAL IDENTITY)	COMMON NAME	OSHA PEL (MG/M3)	ACGIH TLV (MG/M3)	C.A.S.#	%
N/A	N/A	N/A	N/A	N/A	N/A

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: 0.25G/LITER
APPEARANCE AND ODOR: WHITE 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: N/A
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 ACIDS.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: SO3, 1225 DEG. C +

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.
CONDITIONS TO AVOID: N/A.

SECTION VI - HEALTH AND HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION.
CARCINOGENICITY: NTP: N/A IARC MONOGRAPHS: N/A OSHA REGULATED: NO

MATERIAL SAFETY DATA SHEET

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HEALTH HAZARDS (ACUTE & CHRONIC)/SIGNS AND SYMPTOMS OF EXPOSURE:
EYE, NOSE, THROAT, OR RESPIRATORY IRRITATION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
N/A

EMERGENCY AND FIRST AID PROCEDURES:
EYES - FLUSH WITH WATER.
DUST INHALATION - REMOVE TO FRESH AIR.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
SWEEP OR SCOOP UP AND REMOVE.

WASTE DISPOSAL METHOD:
LANDFILL.

PRECAUTIONS TO BE TAKEN IN HANDLING AND SHIPPING:
KEEP CONTAINER CLOSED. STORE IN A COOL, DRY PLACE.

OTHER PRECAUTIONS:
AVOID GENERATING DUST.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: NIOSH/OSHA APPROVED FOR DUST.
VENTILATION: N/A

PROTECTIVE GLOVES: N/A
EYE PROTECTION: SAFETY GLASSES.
OTHER PROTECTIVE CLOTHING AND EQUIPMENT: N/A
WORK/HYGIENIC PRACTICES: AVOID CONDITIONS THAT MAY GENERATE DUST.

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SECTION IX - REFERENCES
U.S. DEPARTMENT OF LABOR - OSHA FORM APPROVED OMB NO. 1218-0072
OSHA HAZARD COMMUNICATION STANDARD - 29 CFR 1910.1200

MATERIAL SAFETY DATA SHEET

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