

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BIO-RITE #51
CHEMICAL FAMILY: HALOGENATED HYDANTOIN
PHYSICAL HAZARD: OXIDIZER, CORROSIVE
HEALTH HAZARD: EYE & SKIN HAZARD, SENSITIZER
HAZARD RATINGS: HEALTH: 3
FLAMMABILITY: 1
REACTIVITY: 1

NUMBER: DMN-222
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0 = Insignificant
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

D.O.T. HAZARD CLASS: OXIDIZER - OXIDIZING MATERIAL, N.O.S. - UN 1479

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	PERCENT	TWA	STEL	CEILING
1-BROMO-3-CHLORO-5, 5-DIMETHYLHYDANTOIN	126-06-7	126-06-7	60	0.2/m ³	-
1,3-DICHLORO-5, 5-DIMETHYLHYDANTOIN	118-52-5	118-52-5	27.4	0.2/m ³	0.4/m ³
1,3-DICHLORO-5-ETHYL-5-METHYLHYDANTOIN	89415-87-2	89415-87-2	10.6	0.2/m ³	-

NONE OF THE INGREDIENTS ARE LISTED AS CARCINOGENS BY N.T.P., I.A.R.C. OR OSHA.

SECTION 3 - PHYSICAL DATA

BOILING POINT: NOT APPLICABLE
SPECIFIC GRAVITY: NOT APPLICABLE
VAPOR PRESSURE: NOT APPLICABLE
PERCENT VOLATILES: <0.5%
VAPOR DENSITY: NOT APPLICABLE
EVAPORATION RATE: NOT APPLICABLE
SOLUBILITY IN WATER: .54 grams/100 grams @25°C
pH: NOT APPLICABLE
APPEARANCE AND ODOR: BRIQUETTES - SLIGHTLY PUNGENT

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: DECOMPOSES AT 165°C
LOWER EXPLOSIVE LIMIT: NOT KNOWN
UPPER EXPLOSIVE LIMIT: NOT KNOWN

EXTINGUISHING MEDIA: WATER, DRY CHEMICAL, FOAM
SPECIAL FIRE FIGHTING PROCEDURES: MAY IGNITE COMBUSTIBLE MATERIALS AND MAY PRODUCE NOXIOUS GASSES. TO MINIMIZE THE PROGRESSIVE GENERATION OF NOXIOUS GASSES, FLOOD BURNING MATERIAL WITH LARGE QUANTITIES OF WATER. MUST WEAR MSHA/NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY.

UNUSUAL FIRE AND EXPLOSION HAZARDS: MATERIAL IS A STRONG OXIDIZER AND CORROSIVE.

SECTION 5 - REACTIVITY DATA

STABILITY: STABLE
INCOMPATIBILITY: STRONG ACIDS AND ALKALIS, HIGH STORAGE TEMPERATURES, MOISTURE AND READILY OXIDIZABLE MATERIAL.
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION RELEASES UNIDENTIFIED NOXIOUS GASSES.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 6 - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (TLV): NONE KNOWN
PRIMARY ROUTES OF ENTRY:
 THROUGH SKIN INHALATION INGESTION

EFFECTS OF OVEREXPOSURE:
EYES/SKIN - CAN RESULT IN SEVERE IRRITATION. PROLONGED CONTACT MAY PRODUCE IRREVERSIBLE DAMAGE.
SWALLOWING - MAY CAUSE IRRITATION TO MOUTH AND THROAT.
ORAL LD₅₀ (RAT): 468 mg/kg
BREATHING - INHALATION OF HIGH CONCENTRATIONS CAN BE SEVERELY IRRITATING TO THE LUNG WITH POTENTIAL SYSTEMIC ABSORPTION AND TISSUE DAMAGE.

FIRST AID PROCEDURES:
EYE CONTACT: IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS OCCASIONALLY. IF PHYSICIAN NOT AVAILABLE, FLUSH FOR AN ADDITIONAL 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

OTHER REGULATORY INFORMATION

THE COMPONENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY OF CHEMICAL SUBSTANCES.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

SKIN CONTACT: IMMEDIATELY WIPE AWAY EXCESS MATERIAL WITH A DRY CLOTH WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. UNDER A SAFETY SHOWER, WASH AFFECTED AREAS THOROUGHLY WITH LARGE AMOUNTS OF WATER, AND SOAP IF AVAILABLE FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. DISCARD OR DECON-TAMINATE CONTAMINATED CLOTHING AND SHOES.

INGESTION: IF SWALLOWED, IMMEDIATELY GIVE SEVERAL GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. HAVE PHYSICIAN DETERMINE IF PATIENT'S CONDITION ALLOWS INDUCTION OF VOMITING OR EVACUATION OF STOMACH. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. GET IMMEDIATE MEDICAL ATTENTION.

INHALATION: REMOVE PERSON TO FRESH AIR. IF VICTIM IS HAVING TROUBLE BREATHING, TRANSPORT TO MEDICAL CARE AND, IF AVAILABLE, GIVE SUPPLEMENTAL OXYGEN.

SECTION 7 - SPECIAL PRECAUTIONS

SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: AVOID BREATHING DUST. STORE IN A COOL DRY PLACE, ISOLATED FROM ALL ORGANIC MATERIAL. AVOID HEAT AND DIRECT SUNLIGHT. MIX ONLY WITH WATER. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND MAY BE HAZARDOUS. OBSERVE ALL PRECAUTIONS GIVEN IN THIS DATA SHEET.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

WEAR APPROPRIATE PROTECTION GEAR AND RESPIRATORY PROTECTION. WHERE DUST MAY BE GENERATED SELF-CONTAINED BREATHING APPARATUS IS PREFERRED. CAREFULLY SWEEP UP MATERIAL. AVOID GENERATING DUST OR CONTAMINATING WITH COMBUSTIBLE MATERIAL. PLACE IN A COMPATIBLE CONTAINER FOR DISPOSAL OR USE. MATERIAL IS TOXIC TO FISH. DO NOT DISCHARGE INTO LAKES, STREAMS, PONDS OR PUBLIC WATER UNLESS IN ACCORDANCE WITH N.P.D.E.S. PERMIT.

WASTE DISPOSAL METHOD: DISPOSE OF IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. INCINERATION IS THE PREFERRED METHOD.

SECTION 8 - PROTECTIVE EQUIPMENT

VENTILATION: GOOD VENTILATION PRACTICES.
RESPIRATORY PROTECTION: NOT EXPECTED TO BE NEEDED WHEN USED AS LABELED. WHERE DUST OR PARTICULATES ARE GENERATED, A NIOSH/MSHA JOINTLY APPROVED RESPIRATOR IS ADVISED.
PROTECTIVE GLOVES: RUBBER OR NEOPRENE, WHEN NEEDED TO PREVENT SKIN CONTACT.
EYE PROTECTION: WEAR CHEMICAL GOGGLES WHERE THERE IS A POTENTIAL FOR EYE CONTACT. USE SAFETY GLASSES WITH SIDE SHIELDS UNDER NORMAL USE CONDITIONS.
OTHER PROTECTIVE EQUIPMENT: EYE WASH, SAFETY SHOWER, PROTECTIVE CLOTHING (LONG SLEEVES, COVERALLS OR OTHER, AS APPROPRIATE), WHEN NEEDED TO PREVENT SKIN CONTACT.