

MATERIAL SAFETY DATA SHEET

Conforms to 29 CFR 1910.1200 (OSHA HAZARD COMMUNICATION STANDARD)

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PRODUCT NAME: BIO-SAFE

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SECTION I - PRODUCT IDENTIFICATION

Trade Names and Synonyms:

BIO-SAFE

Chemical Name/Synonyms:

N/A

Chemical Family:

EMULSIFIABLE SOLVENT BLEND

Formula: MIXTURE

NFPA HAZARD IDENTIFICATION SYSTEM

HAZARD RATING

HEALTH	2	4 - Extreme
FLAMMABILITY	2	3 - High
REACTIVITY	0	2 - Moderate
		1 - Slight
		0 - Insignificant

SECTION II - HAZARDOUS INGREDIENTS

Substance	Approx. %	OSHA PEL	ACGIH TLV	CARCINOGENICITY			CAS No.
				NPT	IARC	OSHA	
2-Chlorotoluene	> 70.0	1 ppm	1 ppm	Y	Y	N	25168-05-2

SECTION III - PHYSICAL DATA

Boiling Point (°F): 212

Vapor Pressure (mm Hg): 2.6

Vapor Density (air = 1): 4.36

Solubility in water: EMULSIFIABLE

Appearance and Odor: CLEAR, COLORLESS LIQUID, CHARACTERISTIC SOLVENT ODOR.

Specific Gravity: 1.08

% Volatile (volume %): > 95

Evaporation Rate (water = 1): > 1.0

pH: < 1

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash point (°F): 118

(test method): CLOSED CUP

Extinguishing media: WATER, FOAM, CARBON DIOXIDE, DRY CHEMICAL.

Special fire fighting procedures: FIRE FIGHTERS MUST BE EQUIPPED WITH FULL PROTECTIVE GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS. AVOID BREATHING SMOKE OR FUMES. FIRE MAY PRODUCE HAZARDOUS VAPOR. MOVE CONTAINER FROM FIRE AREA IF POSSIBLE MINIMIZE AMOUNT OF WATER USED TO FIGHT FIRE, AS RUNOFF MAY CAUSE POLLUTION. CONTAIN AND ISOLATE RUNOFF FOR PROPER DISPOSAL.

Unusual fire and explosion hazard: AVOID SPREADING FIRE WITH WATER STREAM. CONTAINERS MAY EXPLODE IN HEAT OF FIRE. SOLVENT VAPORS MAY FLASH BACK.

Flammable limits in air (volume%)

Upper: N/A Lower: N/A

SECTION V - REACTIVITY DATA

Stability: STABLE

Incompatibility: STRONG ACIDS AND OXIDIZING AGENTS.

Hazardous decomposition products: THERMAL DECOMPOSITION MAY YIELD CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES, AND KETONES.

Hazardous polymerization: WILL NOT OCCUR

Conditions to avoid: HIGH TEMPERATURES

Conditions to avoid: NONE

SECTION VI - HEALTH HAZARD DATA

Threshold limit value: 1 ppm

Primary Route(s) of Exposure: EYE , SKIN CONTACT, INHALATION

Effects of overexposure: EYES: SEVERE IRRITATION, POSSIBLE CORNEAL INJURY. SKIN: MODERATE TO SEVERE IRRITATION WITH PROLONGED CONTACT, DERMATITIS. INGESTION: DAMAGE TO MUCOUS MEMBRANES, NAUSEA, CRAMPS, VOMITING. INHALATION: IRRITATION OF RESPIRATORY TRACT, RESPIRATORY DIFFICULTY, WEAKNESS, HEADACHE, LOSS OF COORDINATION, UNCONSCIOUSNESS. CHRONIC EXPOSURE TO VAPOR MAY CAUSE CNS, KIDNEY, LIVER AND BLOOD DISORDERS.

Emergency and first aid procedures: EYES: FLUSH EYES AND UNDER EYELIDS WITH PLENTY OF COOL WATER FOR AT LEAST 15 MINUTES. OBTAIN IMMEDIATE MEDICAL ASSISTANCE. SKIN: WASH WITH SOAP AND WATER. LAUNDER CLOTHING BEFORE RE-USE.

INGESTION: CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. DO NOT INDUCE VOMITING. KEEP PERSON WARM AND QUIET. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. INHALATION: REMOVE PERSON TO FRESH AIR AND CALL PHYSICIAN IMMEDIATELY. ADMINISTER ARTIFICIAL RESPIRATION IF INDICATED. OBTAIN MEDICAL ATTENTION. OBSERVE FOR ONSET OF PULMONARY EDEMA. TREAT CENTRAL NERVOUS SYSTEM EFFECTS SYMPTOMATICALLY.

SECTION VII - SPILL OR LEAK PROTECTION

Steps to be taken if material is released or spilled: EXTINGUISH ALL SOURCES OF IGNITION AND EVACUATE AREA. VENTILATE AREA. WEAR REQUIRED SAFETY EQUIPMENT. STOP LEAK OR SPILL AND CONTAIN SPILLED MATERIAL. USE NON-SPARKING TOOLS. SOAK UP ON INERT ABSORBENT AND PLACE IN CLOSED CONTAINER FOR PROPER DISPOSAL. RINSE SPILL AREA WITH WATER.

Waste disposal method: CONSULT LOCAL ENVIRONMENTAL AUTHORITIES.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory protection: USE ONLY WITH ADEQUATE VENTILATION. IF TLV IS TO BE EXCEEDED, AN APPROVED ORGANIC ACID VAPOR MUST BE USED.

Ventilation: Local exhaust: RECOMMENDED

Mechanical: RECOMMENDED

Protective gloves: RUBBER GLOVES

Eye protection: GOGGLES OR FACE SHIELD

Other protective equipment: PROTECTIVE CLOTHING, EMERGENCY SHOWER AND EYE WASH STATION.

SECTION IX - SPECIAL PROTECTION

Precautions to be taken in handling and storage: STORE IN COOL, DRY PLACE. CLOSE CONTAINER TIGHTLY WHEN NOT IN USE. WASH THOROUGHLY AFTER HANDLING. EQUIPMENT SHOULD BE GROUNDED WHEN TRANSFERING OR USING THIS MATERIAL.

Other precautions: KEEP OUT OF REACH OF CHILDREN. DO NOT CUT OR WELD ON EMPTY CONTAINER AS THEY MAY CONTAIN FLAMMABLE RESIDUES.

SECTION X - REGULATORY INFORMATION

DOT Proper Shipping Name: NONE

DOT Hazard Class: NONE

DOT ID Number: NONE

DOT Packaging Group: NONE

SARA/TITLE III - CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4): This product does not contain an ingredient(s) listed as a hazardous ingredient for Emergency Release Notification under section 304:

SARA/TITLE III - List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355): This product does not contain an ingredient(s) listed as an extremely hazardous substance (EHS) for Emergency Planning under sections 302 and for Emergency Release Notification under section 304.

SARA/TITLE III - List of Toxic Chemicals subject to Release Reporting (Community Right to know) (40 CFR 372): This product does not contain an ingredient(s) listed as a toxic chemical for Annual Release Reporting Requirements under section 313: