

Material Safety Data Sheet

Bio-Guard 931

Bio-Stim, Inc.

4150 N. Suttle Rd
Portland, OR 97217
(503)286-0450

EMERGENCY INFORMATION

(503)286-0450

SECTION I: PRODUCT IDENTIFICATION

PRODUCT NAME: Bio-Guard Concentrated Detergent
PRODUCT TYPE: Multi-Purpose Cleaner

PRODUCT HAZARD: Health= 0, Fire= 0, Reactivity= 0, Special= 0
HAZARD RATING: 4= Extreme, 3= High, 2= Moderate, 1= Slight, 0= Insignificant

SECTION II: INGREDIENTS

INGREDIENT	(CAS#)	SARA Title III	PEL	TLV
------------	--------	----------------	-----	-----

COMPONENTS LISTED AS A SUSPECTED CARCINOGEN: None
* Unidentified ingredients are not considered hazardous under the Federal Hazard Communication Standard (29 CFR 1910.1200.)

SECTION III: PHYSICAL DATA

BOILING POINT: Approx. 200 F
VAPOR PRESSURE: Approx. 17 mmHg
VAPOR DENSITY: (air=1) < 1
SPECIFIC GRAVITY: 8.64
PERCENT VOLATILES: > 60
EVAPORATION RATE: (H₂O=1) < 1
APPEARANCE AND ODOR: Dark amber color, mild lemon fragrance.

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT (PMCC): Non Flammable
FLAMMABLE LIMITS IN AIR: Not determined or unknown.
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, or water for Class BC or ABC fire extinguisher.
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained positive pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.
HAZARDOUS DECOMPOSITION PRODUCTS: None known.

SECTION V: HEALTH HAZARD DATA

HEALTH HAZARDS (ACUTE AND CHRONIC): None known.
EFFECTS OF OVEREXPOSURE:
EYES - Can cause irritation.
SKIN - Prolonged or repeated contact can cause irritation.
INGESTION - Can cause gastrointestinal irritation.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

EMERGENCY AND FIRST AID PROCEDURES:
EYE CONTACT - Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention if irritation persists.
SKIN CONTACT - Thoroughly rinse exposed area with water. Remove contaminated clothing. Launder contaminated clothing before reuse.
INGESTION - Immediately drink two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.
IF BREATHED - If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped give artificial respiration. Keep person warm, quiet and get medical attention.
PRIMARY ROUTES OF ENTRY: Skin and eye contact.

SECTION VI: REACTIVITY DATA

HAZARDOUS POLYMERIZATION: Will not occur.
STABILITY: Stable.
INCOMPATIBILITY: None known.

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Floor may be slippery, use care to avoid falling.
SMALL SPILL - Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material and transfer to containers.
LARGE SPILL - Person not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

WASTE DISPOSAL METHOD:

ANY SPILL - Destroy by liquid incineration. Contaminated absorbent may be deposited in a landfill in accordance with local, state, and federal regulations.

SECTION VIII: PROTECTIVE EQUIPMENT TO BE USED

RESPIRATORY PROTECTION - If TLV of the product or any component is exceeded, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier). Engineering or administrative controls should be implemented to reduce exposure.
VENTILATION - Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).
PROTECTIVE GLOVES - Wear resistant gloves such as neoprene.
EYE PROTECTION - Chemical splash goggles in compliance with OSHA regulations are advised, however, OSHA regulations also permit other types safety glasses. (Consult your safety equipment supplier).
OTHER PROTECTIVE EQUIPMENT - To prevent repeated or prolonged skin contact, wear impervious clothing and boots.
WORK/HYGIENIC PRACTICES - Ensure strict sanitary conditions are conformed to when working around chemicals. Protective clothing and equipment in accordance with 29 CFR 1910.132 and 29 CFR 1910.133.

SECTION IX: SPECIAL PRECAUTIONS OR OTHER COMMENTS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Keep from freezing.

The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein, as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice for a safe work environment.

The information accumulated herein is believed to be accurate at the time of preparation or prepared from sources believed to be reliable. It is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use.

Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. Since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

DATE: August 26, 1993

