

MATERIAL SAFETY DATA SHEET

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24 Hour Emergency Assistance CHEMTREC 1-800-424-9300

PRODUCT NAME: Bio-90

PRODUCT CODE: BI9001, BI9002, BI901Q

I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Bio-90
PRODUCT CODE: BI9001, BI9002, BI901Q
PRODUCT CLASS: Spray Adjuvant

Date Prepared: 9/20/12
Prepared by: Safety Department

II - HAZARDS IDENTIFICATION SUMMARY

Eyes: Slight irritation.

Skin: Mild to moderate irritation.

Ingestion: Slight throat irritation and respiratory discomfort.

Inhalation: Inhalation of high concentrations of mist may cause headaches and dizziness.

Medical Conditions Aggravated: ND

Target Organs: ND

Routes of Entry: ND

III - COMPOSITION INFORMATION ON INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200)

Ingredient: N/A
Percent: N/A

Occupational Exposure Limit

OSHA PEL: Hexylene Glycol 26 ppm, 125mg/m³
ACGIH TLV: Hexylene Glycol 26 ppm, 125mg/m³

IV - FIRST AID MEASURES

Eyes: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

Skin: In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before reuse.

Inhalation: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs, remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

Ingestion: If victim is conscious and alert, give 1 to 2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

Antidotes: Treat symptomatically. No specific antidote available.

Note to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

V - FIRE-FIGHTING MEASURES

Flashpoint: >200°F
Method: PMCC
Flammable Limits: ND ND
Autoignition Temperature: ND
OSHA Flammability Class: IIIB
Extinguishing Media: Dry chemical, water spray, waterfog, CO₂, foam, sand/earth.

Explosion Hazards: Product will burn under fire conditions. Closed containers may explode due to pressure build up when exposed to extreme heat.

Fire Fighting Equipment: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Fire Fighting Procedures: Water mist may be ineffective. But may be used to cool closed containers.

VI - ACCIDENTAL RELEASE MEASURES

Spill: Sweep, vacuum, or absorb with an inert absorbent for collection in an approved recovery drum for disposal. Wash area with water. Collect wash water for disposal. Always follow Federal, State and Local regulations regarding waste disposal.

VII - HANDLING AND STORAGE

MINIMUM STORAGE TEMPERATURES: 40° F

MAXIMUM STORAGE TEMPERATURES: 120° F

Handling: Avoid breathing vapors and mists. Avoid prolonged contact with skin and eyes.

Storage: Store in tightly closed original labeled containers. Store in a dry, well ventilated area away from ignition sources and incompatible materials.

MSDS - Bio-90

ND=No Data / NA=Not Applicable

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VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL HYGIENE IS AN IMPORTANT EXPOSURE CONTROL MEASURE.

THE FOLLOWING GENERAL MEASURES SHOULD BE TAKEN WHEN WORKING OR HANDLING THIS MATERIAL.

Personal Protection: These recommendations provide general guidelines for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application.

Skin: Skin contact should be minimized through the use of gloves and suitable long-sleeved clothing (i.e., shirts and pants).

Respiratory: Use NIOSH/MSHA approved respirator when limits have been exceeded or are expected.

Eyes and Face: The use of chemical safety glasses with side shields or splash proof goggles when using this product is recommended. An emergency eye wash and safety shower should be accessible to the work area.

Work Hygienic Practices: Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. Wash exposed skin promptly to remove accidental splashes of contact with this material.

IX - PHYSICAL AND CHEMICAL PROPERTIES

Odor: fatty
Appearance: liquid
Color: amber
pH: 5 - 7
Solubility in Water: dispersable

Density: N/A
Particle Size: N/A
Specific Gravity: 1.01 @ 20° C
Viscosity: not established

X - STABILITY AND REACTIVITY

Stable: Yes
Hazardous Polymerization: Will not occur
Hazardous Decomposition: Oxides of carbon from burning

Incompatible Materials: Strong oxidizers such as hydrogen peroxide, bromine and chromic acid
Conditions to Avoid: Heat, open flame, spark

XI - TOXICOLOGICAL INFORMATION

Acute Oral: not established
Acute Dermal: not established

Eye Irritation: not established
Skin Irritation: not established

XII - ECOLOGICAL INFORMATION

ND

XIII - DISPOSAL CONSIDERATIONS

Empty Container Disposal: Since empty packaging contain residues of the product, all labeled hazard precautions should be observed. Always follow Federal, State and Local regulations regarding waste disposal.

XIV - TRANSPORT INFORMATION

NMFC#: 50303

DOT Hazard Class: Not hazardous. Compounds, soap base, liquid.

XV - REGULATORY INFORMATION

SARA TITLE III (Superfund Amendments and Reauthorization Act)

302/311/312 Hazard Categories: ND

304 CERCLA/313 Reportable Ingredients: None

TSCA Status: All chemical substances in this product are listed in the TSCA inventory.

XVI - OTHER INFORMATION

THE INFORMATION IN THIS MSDS IS GIVEN IN GOOD FAITH BASED ON OUR EXPERIENCE AND DATA PRESENTED IN VARIOUS TECHNICAL PUBLICATIONS. IT IS THE USERS RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF SAFETY PRECAUTIONS AS MAY BE NECESSARY. THE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND.