

# MATERIAL SAFETY DATA SHEET

Manufactured For:

Date Prepared:  
1/22/01

Prepared By:  
Safety Dept.

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## 1. Chemical Product Identification

Product Code (s): BI9002,30  
Product Name: Bio-90 Nonionic Surfactant  
Product Class: Spray Adjuvant

HMIS Codes	
Fire:	1
Health:	1
Reactivity:	0
Protection:	X

## 2. Composition / Information on Ingredients

OSHA Hazardous Components (29 CFR 1910.1200)

Exposure Limits			
	OSHA PEL		ACGIH TLV
Hexylene Glycol	25 ppm ,125mg/m3	Hexylene Glycol	25 ppm ,125mg/m3

## 3. Hazard Identification

Potential Health Effects

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: No Data

Routes Of Entry: No Data

Target Organs: No Data

## 4. 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 re-use.

Ingestion:

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

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.

Antidotes:

Treat symptomatically. No specific antidote available.

Notes 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.

Product Name: Bio-90 Nonionic Surfactant

## 5. Fire Fighting Measures

Flashpoint:	>200°F	Autoignition Temperature:	Not established
Method:	PMCC	OSHA Flammability Class:	IIIB
Flammable Limits:	N/D	Extinguishing Media:	Dry chemical, foam, CO <sub>2</sub> , waterspray, sand/earth waterfog
Explosion Hazards:	Product will burn under fire conditions. Closed containers may explode due to pressure build up when exposed to extreme heat.		
Fire Fighting Procedures:	Water mist may be ineffective. But may be used to cool closed containers.		
Fire Fighting Equipment:	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.		

## 6. 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.

## 7. Handling And Storage

Minimum/Maximum Storage Temperatures: 40°F - 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.

## 8. Exposure Controls/Personal Protection

Personal hygiene is an important exposure control measure. The following general measures should be taken when working with 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 exposure 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:

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

