

May be used to comply with OSHA'S Hazard Communication Standard

## IDENTITY (As used on label and list)

400 MD R.I.

## SECTION I

**Manufacturer's Name**

Biosolutions, LLC  
1835 Industrial Park Drive  
Grand Haven, MI  
49417

Emergency Telephone Number  
616-844-6393  
Information Number  
616-846-1210

## SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous Components - None      Specific Chemical Identity - N/A  
Common Name

## CERTIFICATION

THIS IS TO CERTIFY THAT NONE OF THE TOXIC ORGANICS LISTED IN THE FEDERAL REGULATIONS TITLE 40, SECTIONS 413.2 THRU 414.14 ARE USED IN THE MANUFACTURING

OF BIOSOLUTIONS AND THEREFORE ARE NOT COMPONENTS OF 400 MD R.I.

HMSIS-Rating: HEALTH - 1    FIRE - 0    REACTIVITY - 0    PERSONAL PROTECTION - B

## SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

|                                      |                       |
|--------------------------------------|-----------------------|
| Boiling Point                        | 93.4C                 |
| Vapor Pressure (mm Hg.)              | 17.0                  |
| Vapor Density (AIR = 1)              | 0.62                  |
| Solubility in Water                  | Complete              |
| Appearance and odor                  | Pale Blue - Mild Odor |
| PH                                   | 10.5                  |
| Specific Gravity (H2O = 1)           | 1.02                  |
| Melting Point                        | N/A                   |
| Evaporation Rate (Butyl Acetate = 1) | 0.7                   |

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

|                                  |               |
|----------------------------------|---------------|
| Flash Point (Method Used)        | None          |
| Flammable Limits                 | None          |
| LEL                              | N/A           |
| UEL                              | N/A           |
| Extinguishing Media              | None Required |
| Special Fire Fighting Procedures | None Required |
| Usual Fire and Explosion Hazards | None          |

## SECTION V - REACTIVITY DATA

|                                    |                                       |
|------------------------------------|---------------------------------------|
| Stability                          | Stable                                |
| Compatibility (materials to avoid) | Strongly Acidic Materials & Oxidizers |
| Hazardous Polymerization           | Will Not Occur                        |
| Conditions To Avoid                | None                                  |

## SECTION VI - EXPOSURE CONTROLS / PERSONAL PROTECTION

## Routes of Entry:

Inhalation: Yes  
Skin: No  
Ingestion: Yes

Health Hazards (Acute and Chronic): Ingestion of material can cause cramping and stomach discomfort. Inhalation of large amounts could cause narcosis.

Carcinogenicity ----- NONE  
NTP ----- N/A  
IARC Monographs ----- N/A

OSHA Regulated: No

Signs and Symptoms of Exposure: Possible narcosis if inhaled in large quantities.

Medical Conditions Generally Aggravated by Exposure: None

Emergency and First Aid Procedures: None; care in handling is recommended

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: No precautions necessary. Absorb or mop up with wet mop or wash away with water. Slippery.

Waste Disposal Method: Standard sewage treatment methods.

Precautions to be taken in handling and storing: None

Other Precautions: Avoid freezing. If freezing occurs, thaw and stir.

## SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specific Type): None required

## Ventilation:

Local Exhaust: Adequate ventilation  
Mechanical (General) - Acceptable  
Special - None  
Other - None

Protective Gloves: Not necessary

Eye Protection: Protective eyewear recommended.

Other Protective Clothing or Equipment: None

Work/Hygienic Practices: Normal practices.

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