

# MATERIAL SAFETY DATA SHEET

## BOC-95 MPC

(ISO 11014-1 / ANSI Z 400.1-1998 / 93/112/EC)

First Issued: June 6<sup>th</sup>, 2003

Prepared By: The Company Health and Risk Assessment Unit, PO Box 17893, Austin, TX 78760-7893.

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Company Name:** Biological Systems, Inc.  
**Company Mailing Address:** 445 TX 36. PO BOX D  
Rosenberg, Texas 77471  
**EMERGENCY PHONE NO.:** **CHEM-TEL 800.255.3924**  
**Other Applicable No.:** 800.829.3020, Mobile: 817.903.4511  
**Common Name, Chemical Name or Trade Name:** **BOC-95 MPC**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous Ingredients:** This material is not considered hazardous as per CFR 1910.1200

The criteria for listing components in the composition section are as follows: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater. Non-hazardous components may be listed at 3.0% or greater if not proprietary in nature. This is not intended to be complete compositional disclosure. Refer to section 14 for applicable states right to know and other regulatory information.

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**APPEARANCE / ODOR:** Pink Liquid / Mild Citrus Odor

#### **SHORT TERM EXPOSURE:**

**GENERAL:** Liquid or vapors may be irritating to skin and eyes.

**INHALATION:** High concentrations of vapor may cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, possibly with chest pain and coughing. Headache, nausea, vomiting, dizziness, and drowsiness may occur.

**EYES:** May cause mild to severe irritation experienced as discomfort or pain, excess blinking and tear production, possibly with marked redness and swelling of the conjunctiva. **SKIN:** Brief

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contact may cause slight irritation with itching and local redness. Prolonged contact, especially with concentrate, may cause more severe irritation, with discomfort or pain.

**SWALLOWING:** May cause headache, dizziness, poor co-ordination, nausea, vomiting, diarrhea, and general weakness.

**OSHA REGULATED:** No

**LISTED CARCINOGEN: NTA:** No

**IARC MONOGRAPHS:** No

### **POTENTIAL HEALTH EFFECTS**

**INHALATION:** Irritant

**INGESTION:** Irritant

**SKIN (Dermal):** Slight Irritant

**OVER EXPOSURE EFFECTS:** Skin irritation develops slowly with prolonged contact with concentrate. Eye irritation develops immediately upon contact.

## 4. FIRST-AID MEASURES

**FIRST AID:** In case of eye contact, flush immediately with plenty of water for at least 15 minutes; get medical attention if irritation persists; for skin, rinse thoroughly with water. If affected by inhalation of vapor or spray mist, remove to fresh air. Give oxygen or artificial respiration as needed. If swallowed, do not induce vomiting, get immediate medical attention.

## 5. FIRE-FIGHTING MEASURES

**FLASHPOINT:** Non-flammable liquid

**EXTINGUISHING MEDIA:** Determined by surrounding material, water fog or spray, foam, dry powder, carbon dioxide (CO<sub>2</sub>).

**DECOMPOSITION PRODUCTS:** From fire; smoke, carbon dioxide and carbon monoxide

**LOWER FLAME LIMIT:** NA

**HIGHER FLAME LIMIT:** NA

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None known

**FIRE FIGHTING EQUIPMENT:** Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

## 6 ACCIDENTAL RELEASE MEASURES

**CHEMTEL EMERGENCY NUMBER (24 Hour):** CHEM-TEL, 1-800-255-3924

**SPILL:** In case of spillage, dilute with water and wash to sewer if allowed by local regulations, or, absorb with inert material and collect for disposal.

**RCRA STATUS:** None

## 7. HANDLING AND STORAGE

**HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND PROMPT REMOVAL OF MATERIAL FROM EYES, SKIN, AND CLOTHING.**

**Handling And Storage:** Store away from oxidizers or materials bearing a yellow "DOT" label.

**Precautionary Measures:** Provide fresh air ventilation during and after application. Close container after each use. Avoid contact with eyes, and prolonged contact with concentrate on skin. After handling this product, wash hands before eating, drinking, or smoking. If needed, take first aid action shown in Section 4.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### GENERAL CONSIDERATIONS:

**Consider the potential hazards of this material (see section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment.**

**EYE PROTECTION:** Use safety glasses if splashing is likely.

**RESPIRATORY PROTECTION:** Not normally needed if vapor is not present. If vapor is present or becomes a problem due to improper ventilation use NIOSH approved vapor respirator if exposure is unknown or exceeds permissible limits.

**Use NIOSH / MSHA approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult the respirator manufacturer to determine appropriate type of equipment for a given application. Observe respirator use limitations specified by NIOSH / MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.**

**PROTECTIVE GLOVES:** Wear impervious gloves when handling liquid product

**VENTILATION:** Local exhaust

**MECHANICAL EXHAUST:** Use if needed.

**LOCAL EXHAUST:** Recommended

**VENTILATION NOTES:** Provide natural or mechanical ventilation to control exposure levels below Airborne Exposure Limits (see below). The use of local mechanical exhaust ventilation is preferred at the source of air contamination such as open process equipment (dip tanks, parts cleaners, etc.). Consult NFPA Standard 91 for design of exhaust systems.

**THRESHOLD LIMIT VALUE:** None established for this product.

**PROTECTIVE EQUIPMENT: HMIS PERSONAL PROTECTION; B: Safety Glasses, Gloves**  
The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance/Odor:</b>	Clear Amber Liquid / Mild Odor
<b>Boiling Point:</b>	212oF
<b>Freezing Point:</b>	32°F
<b>Vapor Pressure:</b>	ND
<b>Vapor Density (air=1):</b>	>1
<b>Specific Gravity:</b>	1.04– 1.05
<b>pH:</b>	8.7 – 9.3
<b>Solubility In Water:</b>	Complete

## 10. STABILITY AND REACTIVITY

**Stability:** Product is stable

**Conditions to Avoid:** None known.

**Incompatibility, Materials to Avoid:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Oxides of carbon.

**Polymerization:** Will not occur

**Conditions to Avoid:** Strong oxidizing agents.

## 11. TOXICOLOGICAL INFORMATION

**Hazardous Ingredients:** No constituents are hazardous as defined in 29 CFR 1910.1200. All chemical ingredients in this formulation appear in whole or in part on the following inventories. CAS, EINECS, CEPA as well as others. Bacterial agents are proprietary and do not appear on any inventories but are USDA certified as NON-PATHOGENIC and are authorized for use in US government inspected meat, poultry and egg grading plants.

As no ingredients are considered hazardous, no specific toxicological studies have been done.

### **Eye Effects:**

The eye irritation hazard is based on data from information supplied by raw material(s) supplier(s).

### **Skin Effects:**

The skin irritation hazard is based on data from information supplied by raw material(s) supplier(s).

### **Acute Oral Effects:**

The acute oral toxicity is based on data from information supplied by raw material(s) supplier(s).

### **Acute Inhalation Effects:**

The acute respiratory toxicity is based on data from information supplied by raw material(s) supplier(s).

Acute toxicity via the oral route of administration is expected to be low. Acute toxicity via the dermal route of exposure is expected to be low.

### **Carcinogens:**

This product does not contain any known or anticipated carcinogens according to the criteria of the NTP Annual Report on Carcinogens and OSHA 29 CFR 1910, Z.

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### 12. ECOTOXICITY

Data from laboratory studies and from scientific literature is noted below if available.

All ingredients are considered biodegradable. Liquid soap product is totally water soluble, product in dilute form presents minimal environmental impact.

### 13. DISPOSAL INFORMATION

**WASTE DISPOSAL:** Follow Local, State or Federal Regulations, whichever is applicable.

### 14. TRANSPORTATION INFORMATION

The data provided in this section is for information only. The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate regulations to properly classify your shipment for transportation.

<b>PROPER SHIPPING NAME:</b>	D.O.T. NON-REGULATED – BOC-95 MPC
<b>REPORTABLE QUANTITY:</b>	None
<b>HAZARD CLASS AND LABEL:</b>	NON-REGULATED
<b>UN NUMBER:</b>	None
<b>NA NUMBER:</b>	None
<b>PACKAGING SIZE:</b>	Gallon jugs, 5 gallon pails, 55 gallon drums, 270/330 gallon totes and Bulk tankers.

### 15. REGULATORY INFORMATION

#### SARA 311 CATEGORIES:

<b>EPA ACUTE:</b>	Yes (Eyes)
<b>EPA CHRONIC:</b>	No
<b>EPA IGNITABILITY:</b>	No
<b>EPA REACTIVITY:</b>	No
<b>EPA SUDDEN RELEASE OF PRESSURE:</b>	No
<b>CERCLA RQ VALUE:</b>	None
<b>SARA TPQ:</b>	None
<b>SARA RQ:</b>	None
<b>EPA HAZARD WASTE #:</b>	None
<b>CLEAN AIR:</b>	NA
<b>CLEAN WATER:</b>	NA
<b>SARA SECTION 313:</b>	No
<b>DEA Chemical Trafficking Act:</b>	N/A
<b>TSCA STATUS:</b>	All ingredients in this product are on the TSCA Inventory List.

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<b>16. ADDITIONAL INFORMATION</b>
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**NFPA (National Fire Protection Association ) Rating:**

Health:	1
Flammability:	0
Reactivity:	0

**HMIS: (Hazardous Materials Identification System) Rating:**

Health:	1
Flammability:	0
Reactivity:	0

**Personal Protection:** **B- Safety glasses and Gloves.**

**FOOT NOTES:** ND - No Data Available NA - Not Applicable < = Less Than > = Greater Than  
Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Company Health and Risk Assessment Unit, PO Box 17893, Austin, TX 78760.

**REVISION STATEMENT:** Changes have been made throughout this Material Safety Data Sheet. Please read the entire document.

**DISCLAIMER:**

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