



## SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200; GHS 4<sup>th</sup> Revision

### SECTION 1 IDENTIFICATION

Product Name	<b>MICROCAT®-DF</b>
Identified uses	Biocompatible Defoamer for Treating Biological Foam
Company	Bioscience, Inc. 2201 Hangar Place, Suite 200 Allentown, PA 18109 Phone: (800) 627-3069 (484) 245-5232
Website	<a href="http://www.bioscienceinc.com">http://www.bioscienceinc.com</a>

### SECTION 2 HAZARD IDENTIFICATION

This product does not meet the classification criteria for health or physical hazards as supplied and is considered a non-hazardous chemical according to OSHA GHS Hazard Communication regulation 29 CFR 1910.1200.

Hazard Classification	Category	H-statement
N/A	N/A	N/A
<i>Hazard pictograms</i>	N/A	
<i>Signal words</i>	N/A	
<i>Hazard statements</i>	N/A	
<i>Precautionary statements</i>	N/A	

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical Identity</b>	
<b>Common name</b>	Non-hazardous product
<b>Synonyms</b>	
<b>Hazardous Components</b>	
<b>Chemical Name (Concentration)</b>	<b>CAS-No</b>
N/A	N/A
<b>Non-Hazardous Components</b>	
<b>Name</b>	<b>CAS-No</b>
N/A	N/A

### SECTION 4 FIRST-AID MEASURES

Eye	Flush eyes with gently flowing water for a minimum of fifteen minutes. Check for and remove contact lenses. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. If irritation develops, seek medical attention immediately.
Skin	Wash exposed areas with soap and water. Remove contaminated clothing while washing continuously. Discard contaminated clothing and shoes.
Inhalation	Move victim to fresh air. Assist in breathing, if necessary, and seek immediate medical attention.
Ingestion	If swallowed, dilute with two glasses of water. Seek medical attention immediately. INDUCE VOMITING ONLY UPON ADVICE OF A PHYSICIAN. Never give anything by mouth if victim is unconscious or having convulsions.

### SECTION 5 FIRE-FIGHTING MEASURES

Suitable extinguishing media	This product will ignite when exposed to an ignition source while at a temperature at or above its flash point. Use carbon dioxide, dry chemical or alcohol-type foam or universal-type foams to extinguish flames. Water spray may be used to cool fire-exposed containers.
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Specific hazards arising from the chemical  
Special protective actions for fire-fighters

Thermal breakdown of this product will evolve the following decomposition products: carbon dioxide, carbon monoxide, aldehydes, ketones, fumes and smoke.  
Wear self-contained breathing apparatus and protective clothing when combating a chemical fire in a confined area.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Remove spills promptly as they may make floors slippery. Several washes and/or the use of detergents may be necessary to completely clean any spill. Wear recommended protective equipment outlined in Section 8 of this document and provide adequate ventilation during cleanup.

Methods and materials for containment and cleaning up

Spills should be contained, solidified with absorbent, noncombustible material and placed in labeled containers for disposal. Material should be disposed of at a licensed facility. This material is not regulated by RCRA or CERCLA.

## SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Wash thoroughly after handling. Ensure that containers are properly secured prior to moving.

Conditions for safe storage, including any incompatibilities

Keep container closed during any storage. Avoid contact with oxidizing materials. For optimum storage conditions, store between 40° and 100°F.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters

Name	% by Weight	TLV (ACGIH)	PEL (OSHA)
No data			

Engineering Controls General ventilation is recommended.

### Personal Safety Equipment

Eye Protection Safety glasses with side shields are recommended as a minimum, but chemical goggles or a face shield provide better protection.

Skin Protection Skin contact should be minimized. Wash all affected areas prior to eating and at completion of handling. Contaminated clothing should be removed at completion of handling. Impervious gloves (butyl, neoprene, nitrile), coveralls or apron and boots are recommended.

Respiratory protection None required for vapors when used at low temperatures. For vapors and mists, use a negative-pressure, half mask respirator approved for dust and mist protection is required.

Industrial Hygiene Maintain good housekeeping. Wash hands and exposed skin after contact. Remove and wash contaminated clothing.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Tan to pale amber translucent liquid
Odour	Mild fatty odor
Odour threshold	Information not available
pH	6.0 – 7.0 (1% solution)
Melting point /Freezing Point	Information not available
Initial Boiling point and boiling point range	Information not available
Flash Point	> 200°C (>400°F) Setafash Closed Tester ASTM3278
Evaporation rate	Information not available
Flammability (solid; gas)	Non-flammable liquid
Upper/lower flammability or explosive limits	Information not available
Vapour pressure	Information not available
Vapour density	< 1mm Hg at 20°C
Relative density	0.982 g/ml
Solubility	Dispersible in H2O
Partition coefficient: n-octanol/water	Information not available
Auto-ignition temperature	Information not available
Decomposition temperature	Information not available
Viscosity	250 cps (Brookfield RVT)
Pour point	Approx. -10°C

## SECTION 10 STABILITY AND REACTIVITY

Reactivity	Non-reactive product under normal use conditions.
Chemical stability	Stable when used under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization will not occur under normal conditions.
Conditions to avoid	Information not available
Incompatible materials	Strong oxidizing agents, strong acids, strong bases.
Hazardous decomposition products	Hazardous decomposition will not occur under normal conditions.

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## SECTION 11 TOXOLOGICAL INFORMATION

Acute toxicity	Information not available
Skin Corrosion/Irritation	May cause mild irritation following repeated or prolonged contact with skin. Defatting of the skin or irritation seen as local redness with possible mild discomfort.
Serious Eye Damage/Irritation	Exposure may cause mild transient irritation, redness and/or tearing.
Respiratory or Skin Sensitization	Not considered a hazard under normal use conditions. However, if product is heated or sprayed, mild irritation of the nose and throat, headache, nausea and drowsiness may occur.
Ingestion	May result in nausea/intestinal discomfort such as diarrhea or gastrointestinal irritation.
Germ Cell Mutagenicity	Information not available
Carcinogenicity	NTP: None known IARC Monographs: None known OSHA Regulated: None known
Reproductive Toxicity	Information not available
Specific Target Organ Toxicity – Single Exposure	Information not available
Specific Organ Toxicity – Repeated Exposure	Information not available
Aspiration Hazard	Information not available
General Remarks	

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## SECTION 12 ECOLOGICAL INFORMATION

Toxicity	Information not available
Persistence and degradability	Information not available
Bioaccumulative potential	Information not available
Mobility in Soil	Information not available
Other adverse effects	Information not available

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## SECTION 13 DISPOSAL CONSIDERATIONS

Methods	If product is discarded as supplied by Bioscience, it is not considered a hazardous waste under RCRA, 40 CFR 261. Please dispose of in accordance with all local, state and federal regulations.
Containers	Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product.

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## SECTION 14 TRANSPORTATION INFORMATION

UN Number	N/A
UN Proper Shipping Name	N/A
Transport Hazard Class	N/A
Packing Group (if applicable)	N/A
Environmental Hazards	N/A
Special Precautions for User	N/A
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code	N/A
DOT Proper Shipping Name	Chemicals not otherwise indexed (NOI) non-hazardous.

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## SECTION 15 REGULATORY INFORMATION

### U.S. FEDERAL REGULATORY INFORMATION

SARA 302 Threshold Planning Quantity: N/A

SARA 304 Reportable Quantity: N/A

SARA 311/312 Categories: N/A

### SARA TITLE III – SECTION 313 SUPPLIER NOTIFICATIONS

No chemicals in this product exceed the De Minimis reporting level established by SARA Title III, Section 313 and 40 CFR 372.

CERCLA: No chemical in this product is subject to the reporting requirements of CERCLA.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product does not intentionally contain any chemicals known by the State of California to cause birth defects, cancer and /or other reproductive harm, at levels which would require a notification/action under the statute.

Listed on or exempt from the following national chemical inventories:

TSCA (USA)

Canada (DSL)

Australia (AICS)

Korea (KECL)

China (IECSC)

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## SECTION 16 OTHER INFORMATION

Legend:

N/A	Not Applicable
CASRN	Chemical Abstracts Service Registry Number
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Values
ND	Not Determined and/or No Data Available
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
SARA	Superfund Amendments and Reauthorization Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
TSCA	Toxic Substances Control Act

HMIS:

Health: 1

Flammability: 1

Physical Hazard: 0

Personal Protection: B

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. No warranty is expressed or implied pertaining to the accuracy or completeness of the data. This data is compiled based on the most recent information available as of the date generated and is believed to be accurate. It does not represent a guarantee of the properties of this product. The manufacturer assumes no liability for the use or any resulting effects of using this product. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this product. The information in this sheet does not represent analytical specifications; for this information contact Bioscience, Inc. Technical Department.