Bioscience, Inc.
Environmental Products & Services
ISO 9001:2015 Certified

SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200; GHS 4th Revision

SECTION 1 IDENTIFICATION

Product Name	**MICROCAT®-DF 213**
Identified uses	Biocompatible Defoamer for Treating Chemical Foam
Company	Bioscience, Inc. 2201 Hangar Place, Suite 200 Allentown, PA 18109 Phone: (800) 627-3069 (484) 245-5232
Website	http://www.bioscienceinc.com

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

Hazard pictograms	N/A
Signal words	N/A
Hazard statements	N/A
Precautionary statements	N/A

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity	
Common name	Non-hazardous product
Synonyms	
Hazardous Components	
Chemical Name (Concentration)	**CAS-No**
N/A	N/A
Non-Hazardous Components	
Name	**CAS-No**
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 is water based and will not ignite at its boiling point of 212°F. 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.

Specific hazards arising from the chemical	This product contains methyl-polysiloxane which can generate formaldehyde at approximately 300°F (150°C) and above in atmospheres that contain oxygen. Other decomposition products from thermal breakdown are aldehydes, ketones, carbon oxides, sulfur oxides, nitrogen oxides and silica.
Special protective actions for fire-fighters	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. Protect from moisture and foreign materials. Keep away from heat, sparks, and open flames. Avoid direct sunlight. Do not re-use this container. Store product away from combustible materials. Product contains water and will freeze if internal temperature falls below 32°F. For optimum storage conditions, store between 50°F and 95°F or in properly insulated structures.

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 under normal conditions of use.
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	White opaque liquid
Odour	Bland odor
Odour threshold	Information not available
pH	7.0 – 9.0 (neat)
Freezing Point	32°F
Initial Boiling point	212°F
Flash Point	> 100°C (>212°F) Setaflash 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	Information not available
Relative density	1.002 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 @ 25°C	800-1500 cps (Brookfield RVT)
Pour point	35°F

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 materials and alkali based materials.
Hazardous decomposition products	Hazardous decomposition will not occur under normal conditions.

SECTION 11 TOXOLOGICAL INFORMATION

Acute toxicity	Information not available
Skin Corrosion/Irritation	Irritation may develop following repeated or prolonged contact with skin.
Serious Eye Damage/Irritation	Exposure may cause mild transient irritation, redness and/or tearing. Blurred vision may also occur.
Respiratory	Not considered a hazard under normal use conditions.
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	

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

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. It is recommended that the waste be incinerated or land filled at a licensed facility.
Containers	Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product.

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.

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)
Japan (ENCS)
China (IECSC)
Philippines (PICCS)
New Zealand (NZIoC)

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: 0
Physical Hazard: 0
Personal Protection: B

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