

SAFETY DATA SHEET

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

SECTION 1 IDENTIFICATION

Product Name MICROCAT®-ALSH3 Shrimp Formula

Identified uses Maintaining the clarity in water bodies including lakes, shrimp farms, facultative lagoons, polishing ponds, etc. and in

other slow-moving water channels. It is not recommended for controlling slime buildup on surfaces or for controlling

plants and weeds in still or stagnant water bodies.

Company Bioscience, Inc.

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SECTION 2 HAZARD IDENTIFICATION

ClassificationCategoryH-statementSkin Irritant2H315Eye irritant2AH319

Hazard pictograms

(!)

Signal words Warning

Hazard statements Causes skin irritation (H315)

Causes serious eye irritation (H319)

Precautionary statements P264; Wash thoroughly after handling.

P280; Wear protective gloves, clothing, and eye protection.

P302 + P352; IF ON SKIN: Gently wash area with soap and plenty of water.

P305 + P351 + P338; IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P332 + P313; If skin irritation occurs, get medical attention/advice. P337 + P313; If eye irritation persists: Get medical attention/advice. P362 + P364; Take off contaminated clothing and wash it before reuse.

Further information Crystalline silica is a known cause of silicosis (a non-cancerous lung disease). Prolonged and/or repeated

inhalation must be avoided.

Other hazards

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity Common name

Synonyms Inorganic flocculent aids with non-pathogenic, naturally-occurring microorganisms absorbed on

wheat bran and corn gluten

Hazardous Components

 Chemical Name (Concentration)
 CAS-No

 Dolomite (20 – 45 %)
 16389-88-1

 Aluminum sulfate (< 10%)</td>
 10043-01-3

 Protease (1%)
 9014-01-1

 Amylase (1%)
 9000-90-2

 Crystalline silica (< 0.2%)</td>
 14808-60-7

Non-Hazardous Components

NameCAS-NoWheat bran116469-86-4Corn gluten66071-96-3Diatomaceous Earth91053-39-3Sodium montmorillonite132-78-9

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SECTION 4 FIRST-AID MEASURES

Eye Flush eyes with water for at least 15 minutes, seek medical attention. Skin Wash skin with soap and water, remove contaminated clothing.

Inhalation Remove individual to fresh air. If allergic response or difficulty breathing is exhibited, seek medical attention.

Ingestion If swallowed, rinse mouth and throat with tap water, if symptoms persist consult a physician.

Most important symptoms/effects, acute and delayed

Further information

SECTION 5 FIRE-FIGHTING MEASURES

Suitable extinguishing media Use media appropriate to surrounding materials. This product is not

flammable

Specific hazards arising from the chemical Special protective actions for fire-fighters

Material will become slippery if wet

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency

procedures

Environmental precautions

Methods and materials for containment and cleaning up

Provide sufficient ventilation, spilled product should be removed

immediately to avoid formation of dust

Sweep up, dispose to landfill

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling Conditions for safe storage, including any

incompatibilities

Provide eye wash capability. Avoid creating dust, adequately ventilate while handling No special requirements. Contains organic matter which may be explosive as a dust on

very high concentrations; generally considered a low explosive hazard

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Name	CAS-No	TLV (ACGIH)	PEL (OSHA)
Dolomite	16389-88-1	10 mg/m ³	5 mg/m ³
Crystalline silica	14808-60-7	0.1 mg/m ³	0.1 mg/m ³
Aluminum Sulfate	10043-01-3	TWA: 2mg/m ³	
Protease	9014-01-1	0.00006 mg/m³ (as pure protease)	
Amylase	9000-90-2	None established	
Wheat bran	116469-86-4	10 mg/m³ (nuisance dust)	
Corn gluten	66071-96-3	10 mg/m³ (nuisance dust)	
Diatomaceous earth	91053-39-3	10 mg/m³ (nuisance dust)	
Sodium montmorillonite	1302-78-9	None established	

^{*} Specific limits not set for these chemicals. Limits are shown for Particles Not Otherwise Regulated (PNOR) or Particles Not Otherwise Classified (PNOC). First number is for total dust second number { } is for respirable dust

Personal Safety Equipment

Eye Protection Safety goggles

Skin Protection Gloves, long-sleeve shirt, trousers, and/or coveralls

Industrial Hygiene Maintain good housekeeping. Avoid dusty conditions. Wash hands and exposed skin after contact. Avoid

contact with food or food preparation surfaces. If exposure of food surfaces occurs, wash with germicidal

detergent or chlorine bleach. Remove and wash contaminated clothing

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BASIC PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	Tan granular powder	
Odour	Mild	
Odour threshold	Information not available	
pH	Does Not Apply	
Melting point /Freezing Point	Information not available	

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Initial Boiling point and boiling point range	Does Not Apply	
Flash Point	Does Not Apply	
Evaporation rate	Does Not Apply	
Flammability (solid; gas)	Information not available	
Upper/lower flammability or explosive limits	Does Not Apply	
Vapour pressure	Does Not Apply	
Vapour density	Does Not Apply	
Relative density	Information not available	
Solubility (ies)	~ 10% of product is water soluble	
Partition coefficient: n-octanol/water	Does Not Apply	
Auto-ignition temperature	Information not available	
Decomposition temperature	Information not available	
Viscosity	Does Not Apply	
Other Physical/Chemical Properties	Information not available	

SECTION 10 STABILITY AND REACTIVITY

Reactivity Stable under normal storage and usage conditions

Possibility of hazardous reactions Information not available

Conditions to avoid Freezing or temperature greater than 100°F (40°C)

Incompatible materials Strong acids, bases or oxidizers Hazardous decomposition products Information not available

SECTION 11 TOXOLOGICAL INFORMATION

Acute toxicity	Eye - Redness, soreness
	Skin - Redness, rash, burning, dry, itching skin
	Inhalation - Nasal irritation, headache, cough, shortness of breath
	Ingestion - Malaise, dizziness, and nausea, gastrointestinal burns
Skin Corrosion/Irritation	Mild
Serious Eye Damage/Irritation	Mild
Respiratory or Skin Sensitization	Mild
Ingestion	Mild
Germ Cell Mutagenicity	Information not available
Carcinogenicity	Crystalline silica probably carcinogenic
	NTP: x
	IARC Monographs: x
	OSHA Regulated: x
Reproductive Toxicity	Information not available
Specific Target Organ Toxicity – Single	Information not available
Exposure	Information and socilable
Specific Organ Toxicity – Repeated Exposure	Information not available
Aspiration Hazard	Information not available
General Remarks	Inhalation of dust resulting from inappropriate handling may cause respiratory allergy in susceptible individuals.
	Product may contain <1% crystalline silica (CS). IARC has classified CS as probably carcinogenic for humans (2A). NTP lists CS as a substance which may reasonably be anticipated to be a carcinogen. CS
	is a known cause of silicosis (a non-cancerous lung disease).
	This product contains crystalline silica which is considered a health hazard by inhalation. IARC
	and the literature (Oct. 1000) for malure and a for stelling allies and determined that 1) There

This product contains crystalline silica which is considered a health hazard by inhalation. IARC reviewed the literature (Oct., 1996) for polymorphs of crystalline silica and determined that: 1) There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the forms of quartz and cristobalite from occupational sources. 2) There is inadequate evidence in humans for the carcinogenicity of amorphous silica. 3) There is sufficient evidence in experimental animals for the carcinogenicity of quartz and cristobalite. 4) There is limited evidence in experimental animals for the carcinogenicity of tridymite. 5) There is inadequate evidence in experimental animals for the carcinogenicity of diatomaceous earth. 6) There is inadequate evidence in experimental animals for the carcinogenicity of synthetic amorphous silica.

Overall evaluation: Inhaled crystalline silica in the form of quartz and cristobalite from occupational sources is carcinogenic to humans (Group 1).

SECTION 12 ECOLOGICAL INFORMATION

Toxicity	Application of product to potential drinking water sources shall not exceed residual aluminum concentrating of 2mg/m ³
Persistence and degradability	Information not available
Bioaccumulative potential	Information not available

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Mobility in Soil Information not available Other adverse effects Information not available

SECTION 13 DISPOSAL CONSIDERATIONS

Methods Dispose of all wastes in accordance with all Federal, state and local agencies.

Containers n/a

SECTION 14 TRANSPORTATION INFORMATION

UN Number	Mixture not classified as Hazardous according to Regulation (EC) 1272/2008.
UN Proper Shipping Name	
Transport Hazard Class	
Packing Group (if applicable)	
Environmental Hazards	
Special Precautions for User	
Transport in Bulk According to Annex II of MARPOL 73/78 and the	
IBC Code	
DOT Proper Shipping Name	Chemicals not otherwise indexed (NOI) non-hazardous.

SECTION 15 REGULATORY INFORMATION

None of the components present in this product are at a level that requires identification under: 1) CERCLA, 2) SARA Title III, 3) 40 CFR 372 (for SARA), or 4) TSCA.

Canada WHIMS: controlled product is hazard class D2A (respiratory sensitizer), toxic class D2B (eye irritant)

All ingredients used are listed on the USEPA TSCA Inventory list.

EU directive 2000_54 regarding risks from biological agents: micro-organisms in Class 1 may be used without restriction.

WGK (Water Hazards Class): 0 non-hazardous to water.

SECTION 16 OTHER INFORMATION

Key: N/A, n/a – Not available

Mixture classified as not dangerous according to Regulation (EC) 1272/2008.

Observe employment restrictions for people.

 $Components \ not \ precisely \ identified \ are \ proprietary \ or \ non-hazardous. \ All \ chemical \ ingredients \ appear \ on \ the \ EPA \ TSCA \ inventory$

The microbes in this product are Class 1 microbes, defined by the US Centers for Disease Control as not likely to cause disease in healthy humans and animals. However, contact with open wounds should be avoided; persons who have a compromised immune system or a history of severe allergic response should avoid contact and/or breathing dust or mist from product handling or manufacturing processes.

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. 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

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