

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer:
Bioscience Inc.
966 Postal Road, Suite 200
Allentown, PA 18109

Creation Date: 02/01
Review Date: 05/08

Information Phone Number: 800-627-3069
Emergency Phone Number: 800 424-9300

Commercial Product Name: **MICROCAT®-XRC Oil Spill Absorber/Degrader**
Chemical Characterization: Natural absorbent with naturally-occurring, non-pathogenic microbes and nutrients for oil cleanup and biodegradation

SECTION II - COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients :	% by wt.	CAS Number:	TLV (ACGIH):	PEL (OSHA):
Dolomite	5	16389-88-1	10 mg/m ³	5 mg/m ³
Crystalline silica	<0.1	14808-60-7	0.1 mg/m ³	0.1 mg/m ³
Quartz	0-6	14808-6 0-7		1 to 5* mg/m ³
Cristobalite	0-1	14464-46-1		
Activated Carbon	<5	7440-44-0		
Protease	<1	9014-01-1	.00006 mg/m ³ (as pure protease)	
Amylase	<1	9000-90-2	none established	
Non-hazardous Ingredients: Microorganisms and degradative enzymes absorbed on				
Wheat bran		116469-86-4	10 mg/m ³ (nuisance dust)	
Corn gluten		66071-96-3	10 mg/m ³ (nuisance dust)	
Ground and dehydrated brown algae			10 mg/m ³ (nuisance dust)	
Diatomaceous earth		91053-39-3		
Sodium montmorillonite		1302-78-9		

This product may contain low concentrations of crystalline silica in the forms of quartz, cristobalite, and/or tridymite. The PEL for crystalline silica **respirable** dust is 10 mg/m³/(%SiO₂ + 2) if present as quartz. The comparable PEL for total dust is 30 mg/m³/(%SiO₂ + 2). Use half the calculated value if cristobalite or tridymite is detected

SECTION III - HAZARD IDENTIFICATION AND FIRST AID PROCEDURES

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, persons who have a compromised immune system or a history of severe allergic response should avoid contact with open wounds and/or breathing dust or mist from product handling or manufacturing processes.

INHALATION: Dust may cause irritation to nose, throat and lungs. Prolonged inhalation of powder may result in silicosis, a non-cancerous lung disease. If overcome by dust, remove to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. **Seek Medical Attention.**

EYE CONTACT: Dust may cause eye irritation or redness. If exposure occurs, flush with water for 15 minutes. Hold back eyelids during flushing. **Seek Medical Attention.**

SKIN CONTACT: Dust may cause skin irritation. Flush contact areas with water.

SWALLOWING: Do not induce vomiting. Drink two glasses of water and seek medical attention.

NFPA Rating: Health: 2 Flammability: 0 Reactivity: 0

SECTION IV - FIRE FIGHTING MEASURES

Flash Point: NA Flammability Limits: NA
Extinguishing Media: Use media appropriate to surrounding materials. This product does not support combustion.
Special Precautions: Wear full protective equipment including self-contained breathing apparatus. Keep containers cool with water spray.
Unusual Fire and Explosion Hazards: None.

SECTION V - ACCIDENTAL RELEASE MEASURES

AFTER SPILLAGE: Sweep up material using good housekeeping practices. Hold for disposal or reuse. Material will become slippery if wet. Dispose to landfill or other disposal according to applicable Federal, State, and Local regulations.

FIRST AID: See section III.

SECTION VI - PERSONAL PROTECTION/HANDLING AND STORAGE

TECHNICAL PROTECTIVE MEASURES: Use with adequate ventilation.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: NIOSH or MSA approved mechanical filter respirator should be used when dust levels exceed OSHA PEL.

SKIN PROTECTION: Gloves are optional but recommended. Exposed clothing should be washed before reuse.

EYE PROTECTION: Safety goggles recommended.

INDUSTRIAL HYGIENE: Eyewash station should be available.

PROTECTION AGAINST FIRE AND EXPLOSIONS: No special requirements.

SECTION VII – PHYSICAL PROPERTIES

Color: Light tan to brown or grayish brown	Form: fine powder	Odor: No significant odor	pH Value: 8-11 (6% slurry)
Specific Gravity: 2.7 (water =1)	Density (20°C): 53-70 pounds/cubic foot (uncompacted)	Vapor Density: NA	
Solubility in Water: Insoluble	Alternative Solvent: None	Flash Point: NA	Melting Point: ND
Freezing Point: ND	Vapor Pressure: NA	Evaporation Rate: NA	

SECTION VIII – TOXICOLOGICAL INFORMATION

Inhalation of dust resulting from inappropriate handling may cause respiratory allergy in susceptible individuals.

Carcinogenicity: Crystalline silica probably carcinogenic NTP: x IARC Monographs: x OSHA Regulated:

Product may contain <1% crystalline silica (CS). IARC has classified CS as probably carcinogenic for humans (2A). NTP lists CS as a substance that may reasonably be anticipated to be a carcinogen. CS is a known cause of silicosis (a non-cancerous lung disease).

Carcinogenicity: This product contains crystalline silica that 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 IX – INFORMATION ON ECOLOGICAL EFFECTS

No ecological effects anticipated from disposal or dispersal in the environment.

SECTION X - DISPOSAL CONSIDERATIONS

Disposal: Dispose to landfill or other disposal according to applicable Federal, State, and Local regulations. Disposal method will be dictated by absorbed material.

SECTION XI – TRANSPORT CLASSIFICATION

DOT HAZARD CLASS:	DOT LABEL: None Required	DOT PROPER SHIPPING NAME: Not Regulated
HAZARDOUS INGREDIENTS: NA	PLACARDS: NA	REPORTABLE QUANTITIES: NA

SECTION XII – 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.

Canadian WHMIS: Controlled product Hazard Class D2A (respiratory sensitizer) Canadian WHMIS: Toxic Class D2B (eye irritant)

Quartz is on Canadian WHMIS (Workplace Hazardous Material Information System) Ingredient Disclosure System, Massachusetts Substance List, New Jersey Right to Know Hazardous Substance List, and Pennsylvania Hazardous Substance List.

SECTION XIII – FURTHER INFORMATION

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 cannot be assured 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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