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® - SK Oil Spill Absorber**
Identified uses	Used on spillage of oil and other forms of contamination by petroleum hydrocarbons and related wastes.
Company	Bioscience, Inc. 2201 Hangar Place, Suite 200 Allentown, PA 18109 Phone: (800) 627-3069 (484) 245-5232
Website	www.biosciencеinc.com

SECTION 2 HAZARD IDENTIFICATION

Hazard Classification	Category	H-statement
Skin Irritant	2	H315
Eye irritant	2A	H319
Specific Target Organ Toxicity – Repeated	2	H373

Hazard pictograms

Signal words Warning

Hazard statements
Causes skin irritation (H315)
Causes serious eye irritation (H319)
May cause damage to organs through prolonged or repeated exposure (H373)

Precautionary statements
P260 – Do not breathe dust.
P264 – Wash thoroughly after handling;
P280 – Wear protective gloves, eye, and face protection;
P302 + P352 – IF ON SKIN: Wash with plenty of soap and water;
P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. 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 before reuse
P314 – Get medical advice if you feel unwell.
P501 – Dispose of contents/container in accordance with local, state, and Federal regulations.

Further information

Other hazards
Material will become slippery if wet.
Peat may serve as a wick with liquid flammable hydrocarbons.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity	
Common name	
Synonyms	clay/peat based absorbent with microbes and nutrients for oil biodegradation
Hazardous Components	
Chemical Name (Concentration)	**CAS-No**
Quartz (0 – 3%)	14808-60-7
Cristobalite (0 – 1%)	14464-46-1
Non-Hazardous Components	
Name	**CAS-No**
Sodium montmorillonite	1302-78-9
Peat	
Microbes on bran carrier	68909-35-3
Diammonium phosphate (<2%)	7783-28-0

SECTION 4 FIRST-AID MEASURES

Eye	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	Dust may cause skin irritation. Flush contact areas with water.
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**.
Ingestion	Do not induce vomiting. Drink two glasses of water and seek medical attention.
Most important symptoms/effects, acute and delayed	
Further information	

SECTION 5 FIRE-FIGHTING MEASURES

Suitable extinguishing media	Dry chemical, CO_2, water spray or foam
Specific hazards arising from the chemical	Peat may serve as a wick with liquid flammable hydrocarbons. Material will become slippery if wet.
Special protective actions for fire-fighters	Wear full protective equipment including self-contained breathing apparatus. Keep containers cool with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures	Use with adequate ventilation, provide eyewash capability. Avoid creating dust.
Environmental precautions	
Methods and materials for containment and cleaning up	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.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling	Safety glasses or eye shield recommended.
Conditions for safe storage, including any incompatibilities	Contain spills. Flush to sewer (completely biodegradable and non toxic).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Name	CAS-No	TLV (ACGIH)	PEL (OSHA)
Quartz	14808-60-7		1 to 5*
*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/ m^3/ (%SiO_2 + 2) if present as quartz. The comparable PEL for total dust is 30 mg/ m^3/ (%SiO_2 + 2). Use half the calculated value if cristobalite or tridymite is detected. +respirable dust; # total dust Total product subject to nuisance dust limit of 10 mg/m^3			

* 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 recommended.
Skin Protection	Gloves are optional but recommended. Exposed clothing should be washed before reuse.
Respiratory protection	NIOSH or MSA approved mechanical filter respirator should be used when dust levels exceed OSHA PEL.
Industrial Hygiene	Eyewash station should be available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BASIC PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Brown w/ light colored granules; fine to fibrous particulate with coarse granules
Odour	No significant odor
Odour threshold	Information not available
pH	4 – 8 (6% slurry)
Melting point /Freezing Point	Information not available

Initial Boiling point and boiling point range	Does Not Apply
Flash Point	> 150°C
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)	Insoluble in water
Partition coefficient: n-octanol/water	Does Not Apply
Auto-ignition temperature	260°C (500°F)
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 temperatures 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	Information not available
Skin Corrosion/Irritation	Product may cause skin irritation.
Serious Eye Damage/Irritation	Product may cause eye irritation or redness.
Respiratory or Skin Sensitization	Product may cause irritation to nose, throat and lungs.
Ingestion	Information not available
Germ Cell Mutagenicity	Information not available
Carcinogenicity	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: There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the forms of quartz and cristobalite from occupational sources. There is inadequate evidence in humans for the carcinogenicity of amorphous silica. There is sufficient evidence in experimental animals for the carcinogenicity of quartz and cristobalite. There is limited evidence in experimental animals for the carcinogenicity of tridymite. There is inadequate evidence in experimental animals for the carcinogenicity of diatomaceous earth. 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).
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	No ecological effects anticipated from disposal or dispersal in the environment.
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	Dispose of in accordance with current Federal, State, and Local regulations.
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	Not regulated

SECTION 15 REGULATORY INFORMATION

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

Status on Substance Lists

Comprehensive Environmental Response, Compensation and Liability Act of 1980, (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 4OCFR302A. Components present in this product which may require identification are: Chemical: None CAS#-

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQS) and release reporting based on RQs. Components present in this product at a level which could require reporting under the statute are: Chemical: None CAS#:

SARA requires the submission of annual reports of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDS that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are: Chemical: None CAS#:

Toxic Substances Control Act (TSCA). The ingredients of this product are on the TSCA inventory.

State Right to Know

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 16 OTHER INFORMATION

Key: N/A, n/a – Not available

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.