

SECTION I - IDENTIFICATION	
Product Name	OxiShield™ – Microbial Barrier RTU (Blend)
Supplier's Name	OxiBrands
Address (City, State, Zip)	37654 Amrhein, Livonia, Michigan 48150, USA
Manufacturer's Name	OxiBrands
Address (City, State, Zip)	37654 Amrhein, Livonia, MI 48150, USA
Emergency Telephone Number	1-800-442-7258

SECTION II – COMPOSITION / INFORMATION ON INGREDIENTS					
CAS #	001312-76-1				
Chemical Name	Potassium silicate liquid				
Exposure Limits					
ACGIH		OSHA		COMPANY	
TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
N.E.	N.E.	N.E.	N.E.	N.E.	No

SECTION III – HAZARDS IDENTIFICATION	
Primary Route(s) of Entry	1. Skin Contact 2. Skin Absorption 3. Inhalation 4. Ingestion 5. Eye Contact
EMERGENCY OVERVIEW	
Causes eye irritation. Irritating to gastrointestinal tract. Inhalation irritant.	
Effects of Overexposure – Skin Contact	May cause moderate irritation with prolonged or repeated contact.
Effects of Overexposure – Inhalation	May be irritating to the tract
Effects of Overexposure – Ingestion	Irritating to mouth, throat and stomach. May cause discomfort, nausea, vomiting, diarrhea, if swallowed.
Effects of Overexposure – Eye Contact	Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or feeling like that of fine dust in the eyes.
Effects of Overexposure – Chronic Hazards	Not listed as a carcinogen by OSHA, IARC and NTP
Target Organs	Skin, eyes, gastrointestinal, respiratory system

SECTION IV – FIRST AID MEASURES	
First Aid – Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
First Aid – Skin Contact	Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.
First Aid – Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.
First Aid - Ingestion	If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION V – FIRE FIGHTING MEASURES

Flash Point: N.D	Lower Explosive Limit: N.D
	Upper Explosive Limit: N.D
Autoignition Temperature	N.D
Extinguishing Media	1. CO ₂ 2 Dry Chemical 3. Foam 4. Water Fog
Unusual Fire and Explosion Hazards	None
SPECIAL FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Noncombustible material, use appropriate media for surrounding fire.	

SECTION VI – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spill with inert material (e.g. dry sand or earth) then place in a chemical waste container. Follow all government regulations. Evacuate area of unprotected personnel. Eliminate all sources of ignition. Provide adequate ventilation. Neutralize spill. Use a weak base, such as soda ash, for acid spills and weak acid, such as citric acid, for basic spills.

SECTION VII – HANDLING AND STORAGE

Handling	Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing
Storage	Keep container closed when not in use. Do not store near incompatibles. Do not store in aluminum, fiberglass, copper, brass, zinc, or galvanized containers. Storage temperature 0-95 degrees Celsius.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Respiratory Protection	A respiratory program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Skin Protection	Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield. The gloves listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Nitrile rubber.
Eye Protection	Wear chemical splash goggles. DO NOT WEAR CONTACT LENSES
Other Protective Equipment	Where splashing is possible, full chemically resistant protective clothing (e.g acid suit) and boots are required. An eyewash and safety shower should be present in the immediate area when handling this product.
Hygienic Practices	Wash hands before eating. Remove contaminated clothing and wash before re-wearing. Use only in a well ventilated area. Follow MSDS /label precautions even after container is emptied because they may retain product residuals. Avoid contact with eyes, skin and clothing

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range	N.D.
Vapor Density	Heavier than air
Odor	N.D.
Odor Threshold	N.D.
Appearance	Slightly hazy, milky liquid
Evaporation Rate	Slower than Butyl Acetate
Solubility in H ₂ O	Soluble
Freeze Point	N.D.
Vapor Pressure	N.D.
Specific Gravity	1.10
pH at 0.0%	11.20 at 100.00
Physical State	Liquid
Viscosity	N.D.
Coefficient of Water/Oil Distribution	N.D.

SECTION X – STABILITY AND REACTIVITY

Conditions to Avoid	None known
Incompatibility	Acids, metals such as aluminum, zinc, or metals that displace Hydrogen. Ammonium salt.
Hazardous Decomposition Products	Flammable Hydrogen gas
Hazardous Polymerization	Will not occur under normal conditions
Stability	This product is stable under normal conditions

SECTION XII – ECOLOGICAL INFORMATION

Ecological Information: No product or component ecological information is available

SECTION XIII – DISPOSAL CONSIDERATIONS

Disposal Method: Follow all federal, state, and local regulations. If approved, flush to sewer with large quantities of water.

SECTION XI – TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION XIV – TRANSPORTATION INFORMATION

DOT Proper Shipping Name	Not DOT Regulated
DOT Hazard Class	Not DOT Regulated
Packaging Group	Null

SECTION XV – REGULATORY INFORMATION

US FEDERAL REGULATIONS AS FOLLOWS:

CERCLA – SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA hazard Categories promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

ACUTE HAZARD

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Chemical Name	CAS Number	WT/WT % is Less Than
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No SARA Section 313 components exist in this product

Toxic Substances Control Act:

The chemical substances in this product are not on the TSCA Section 8 inventory

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from United States.

INTERNATIONAL REGULATIONS

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings

CANADIAN WHMIS CLASS: No information available

SECTION XVI – OTHER INFORMATION

HMIS RATINGS: Health – 2	Flammability – 0	Reactivity - 0
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The data in this Material Safety Data sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information and recommendations contained herein are based upon data believed to be correct. However, since data, safety standards, and government regulations are subject to change and the conditions of handling, or misuse are beyond our control, Gibraltar National Corporation, makes no warranty, either expressed or implied, and disclaims all liability for reliance thereon. User should satisfy himself that he has all current data relevant to his particular use.