

MATERIAL SAFETY DATA SHEET



BioChem Solutions

1. Product and Company Identification

PRODUCT NAME: Bio-CLEANER

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2. Hazards Identification

HAZARD CLASSIFICATION: Not classified as hazardous according to the criteria of SWA.
Not classified as a dangerous good according to the criteria of ADG Code (see section 14).

Potential Health Effects

Acute Effects: May cause slight irritation
Skin: Substance may cause sensitive skin slight irritation
Inhalation: May cause irritation to respiratory tract
Ingestion: Ingestion may cause slight gastrointestinal irritation

Potential Environmental Effects: There is no known ecological information for this product.

The information contained in this MSDS is specific to the product when handled and used neat. This product when diluted may not require the same control measures as the neat product. Check with your technical representative if in doubt.

3. Composition and Information on Ingredients

INGREDIENT	CAS No.	PROPORTION (% W/W)
<i>The ingredients below are not considered either hazardous, dangerous goods or poison scheduled according to the criteria of SWA, ADG Code and SUSDP (respectively) at the levels used in the product.</i>		
Bacillus spores		<30%
Secondary alkane sulphonate, sodium salt	97489-15-1	<10%
Polyalkylene oxide derivative of a synthetic alcohol	103818-93-5	<10%
Polyalkylene oxide derivative of a synthetic alcohol	103818-93-5	<5%
Fragrance		<5%
Non hazardous ingredients		>50%

4. First Aid Measures

Eye Contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin Contact:	Wash off immediately with soap and water
Inhalation:	Move to fresh air
Ingestion:	Clean mouth with fresh water and afterwards drink plenty of water
Notes to Physician:	Treat symptomatically

5. Fire Fighting Measures

Flammable Properties:	Slightly flammable according to HMIS criteria
Suitable Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Unsuitable Extinguishing Media:	None
Hazardous Combustion Products:	None
Specific Hazards Arising from Chemical:	May cause allergic respiratory reaction
Protective Equipment for Firefighters:	Self-contained breathing apparatus and standard turn out apparel

6. Accidental Release Measures

Personal Precautions:	See Section 8
Environmental Precautions:	Spilled preparation should be removed immediately to avoid formation of dust from dried preparation. Take up by mechanical means preferably by a vacuum cleaner with a filter. Flush remainder carefully with plenty of water. Avoid splashing and high pressure washing. Avoid the formation of aerosols. Ensure sufficient ventilation. Wash contaminated clothing.
Methods for cleaning up:	Avoid formation of dust and aerosols Spilled preparation should be removed immediately to avoid formation of dust from dried preparation. Take up by mechanical means preferably by a vacuum cleaner with a filter. Flush remainder carefully with plenty of water. Avoid splashing and high pressure washing. Avoid the formation of aerosols. Ensure sufficient ventilation. Wash contaminated clothing.

7. Handling and Storage

Handling:	Avoid formation of dust and aerosols. Ensure adequate ventilation
General Precautions:	The substance should be handled under conditions of good industrial hygiene and in conformity with any local regulations in order to avoid unnecessary exposure.
Storage:	Keep tightly closed in a dry and cool place
Temperature:	Keep in a dry, cool and well ventilated place
Storage Conditions:	In unbroken packaging – dry and protect from the sun. The product has been formulated for optimal stability. Extended storage or adverse conditions such as higher temperatures or high humidity may lead to a higher dose requirement.
Conditions to Avoid:	Avoid temperatures above 45 C to preserve biological stability. Avoid freezing temperatures. Strong acid's and alkali compounds may inactivate biological cultures. Avoid strong oxidizing agents.
Incompatible Materials:	Strong acids or alkali compounds may inactivate biological cultures

8. Exposure controls and personal protection

Engineering Controls:	Ensure adequate ventilation, especially in confined areas Maintain good conditions of industrial hygiene. Some processes may require enclosures, local exhaust ventilation, or other engineering controls to control airborne levels/. Additional handling and healthy/safety information is available on request.
Personal Protection Equipment:	
Respiratory Protection:	In case of insufficient ventilation wear suitable respiratory equipment that meets Hepa/P100 specifications.
Eye Protection:	Safety glasses with side-shields
Skin Protection:	Long sleeved clothing
Hand Protection:	Gloves
General Hygiene	Handle in accordance with good industrial hygiene and safety practices
Environmental Controls:	Local authorities should be advised if significant spillages cannot be contained

9. Physical and Chemical properties

Appearance:	Opaque
Physical State:	Liquid
Odour:	Floral Fragrance
PH:	7 – 7.5
Boiling Point:	No information available
Melting Point:	No information available
Flash Point:	No information available
Flammability:	No information available
Explosive Properties:	No information available
Oxidizing Properties:	No information available
Vapor Pressure:	No information available
Relative density:	No information available
Solubility:	No information available
Partition Coefficient:	No information available

The physical data presented above are typical values and should not be construed as a specification

10. Stability and Reactivity

Chemical Stability:	Stable under recommended storage conditions
Conditions to Avoid:	table under normal conditions. Excessive temperature variations below 0 degrees C or above 68 C.
Materials to Avoid:	None
Hazardous Decomposition Products:	None
Possibility of Hazardous Reactions:	None

11. Toxicological Information

Indigestion, LD50 rat oral (mg/kg):	Not determined
Inhalation, LC50 rat inhalation (mg/1/4hr):	Not determined
Skin, LD50 rat dermal (mg/kg)	Not determined
Eye Irritation:	Not determined
Chronic Toxicity	
Sensitization:	According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

This product is formulated using a range of microorganisms specially selected for the natural environment

12. Ecological Information

Ecotoxicity

This product is not expected to pose an environmental hazard. No toxicity data is available specifically for soil organisms, plants and terrestrial animals

Environmental Effects:	The data available do not support any environmental hazards
Persistence/Degradability:	The organic components of the product are biodegradable
Bioaccumulative Potential;	According to experience this is not expected
Mobility:	Not available
Other adverse effects:	No known effect

13. Disposal Considerations

Waste disposal method:	Dispose of contents/container in accordance with local regulations
Contaminated packaging:	Dispose of wastes in an approved waste disposal facility

14. Transport Information

Road and Rail

Not classified as Dangerous Goods by the criteria of the Australian Goods Code (ADG Code) for transport by Road and Rail.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN NUMBER:	None
UN PROPER SHIPPING NAME:	None
CLASS AND SUBSIDIARY RISK(S): PACKAGING GROUP:	None
HAZCHEM CODE:	None
INITIAL EMERGENCY RESPONSE GUIDE:	None
SEGREGATION DANGEROUS GOOD:	None

15. Regulatory Information

International Inventories

TSCA:	Complies
PICCS:	Complies
KECL:	Complies
ENCS:	Complies
CHINA:	Complies
AICS:	Complies
DSL/NDSL:	Complies

16. Other Information

General Information:	None
SDS Issue Number:	002
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