

MSDS AS PER GHS GUIDELINES

Date: Nov 2017

MATERIAL SAFETY DATA SHEET


1. IDENTIFICATION OF THE PRODUCT AND COMPANY

1.1. Product Identifier	BIOBACT
1.2. Relevant identified uses of the substance or mixture and uses advised against	Odor control, Sewage Treatment, Bio-degradable effluent and Solid Waste treatment.
1.3. Details of the Supplier of the safety data sheet	Contact details: Gamyam Bio & Renewable Solutions Pvt. Ltd. # 6-3-1099/1/14 & 15, 6 th Floor, Lake Melody Towers, Raj Bhavan Road, Somajiguda, Hyderabad, India - 500082. URL: www.biobact.com
1.4. Emergency telephone numbers	Phone: +91 9030088981, 9652450007
1.5. Email address of Technical person	Email : ravi@biobact.com, sales@biobact.com

2. COMPOSITION & INFORMATION ON INGREDIENTS

2.1. Chemical Identity	A powder having a Combination of a number of protein derivatives mixed in natural minerals, mineral talc and/or sodium salts
2.2 C.A.S No of active ingredient	Proprietary mixture

3. HAZARD IDENTIFICATION

3.1. Classification of the substance or mixture*	Combination of a number of protein derivatives mixed in natural minerals, mineral talc and /or sodium salts. Non-hazardous, Non-flammable, Non-dangerous. No known OSHA hazards. Not a dangerous substance according to GHS. It is an Non-irritant
*Regulation (EC) No. 1907/2006 Reach and as per DPD: Directive 1999/45/EC	
2.2 Hazard Statement	
Signal word	Warning
Hazard Statement	Health Hazard – H320 – causes irritation to eyes Hazard category – 2B
GHS symbol	
2.3 Label elements **	The product need not be labeled in accordance with EC directives

GAMYAM BIO & RENEWABLE SOLUTIONS PVT. LTD.

6-3-1099/1/14 & 15, 6th Floor, Lake Melody Towers, Raj Bhavan Road, Adj The Park Hotel, Somajiguda, Hyderabad, India - 500082. GPS Coordinates :17.424199,78.461265

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** Classification and marking according to regulation (EC) no. 1272/2008 REACH

2.4 Other hazards	HMIS Classification	NFPA RATING
	Health Hazard : 0	Health Hazard : 1
	Flammability : 0 Physical	Fire : 0
	Hazards: 0	Reactivity Hazard : 0

4. FIRST AID MEASURES

4.1. Description of first aid measures	<p>In case of inhalation: No special measures required.</p> <p>In case of skin contact: Remove contaminated clothing immediately. Skin adsorption, remove with water & soap wash with repeated rinses. Wash contaminated clothing and equipment before reuse.</p> <p>In case of eye contact: Rinse with plenty of water; seek medical attention, if necessary.</p> <p>If Swallowed: Permit vomiting; seek medical advice in case of sickness.</p>
4.2. Most important symptoms and effects, both acute and delayed	No information available, seek medical attention
4.3. Indication of any immediate medical attention and special treatment needed	No information available, seek medical attention

5. FIRE FIGHTING MEASURES

5.1. This product is rated as	Non-flammable
5.2. Extinguishing media	<p>Suitable extinguishing media: Use any of the following extinguishing measures viz., Carbon dioxide, Dry chemical powder, foam or fine spray appropriate to the source of fire.</p> <p>Unsuitable extinguishing media: None known</p>
5.3. Special exposure hazards/unusual hazards	None known
5.4. Advice for firefighters	Wear self contained breathing apparatus and full protective gear, usual fire-fighting equipment can be used.
5.5. Flash point/auto ignition temperature/explosion limits	Not applicable

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions	Wear personal protective suits. Chemical goggles or full faced shield. Chemical resistant rubber or neoprene gloves, CEN-personal protective equipment (89/686/EEC).
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	Recommended: 3M8825 Particulate Respirator - valved. Classification: EN 149:2001 FFP2RD, suitable for mists
6.2. Environmental precautions	Observe local byelaws.
6.3. Clean up procedure	For small spills use Mop, wipe or soak with cloth or absorbents. E.g. sand, kieselguhr saw dust, etc and dispose according to regulations. Large spills should be contained to prevent spreading. Do not allow product to enter lakes, sewers, streams, ponds, estuaries, oceans, or other waters unless permitted by law.
6.4. Reference to other sections	Prevent spreading over wide area (by containment)

7. HANDLING AND STORAGE

7.1. Advice on safe handling	General ventilation is required. Avoid eye contact. Avoid exposure to direct sunlight
7.2. Conditions for safe storage	Store in any dry place with general ventilation, in closed containers. Closed container stored at standard room temperature, away from sunlight. DO NOT FREEZE. Store temperature below 40C.
7.3. Incompatible packaging materials.	Advised to use original containers only. Avoid materials prone for rusting.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Exposure controls	Engineering controls: Use mechanical local exhaust at point of mist release. Ensure that existing ventilation is sufficient to prevent exceeding the recommended occupational exposure limit specified by REACH regulation (EC) No 1907/2006. Occupational exposure limit as per EH40-WEL (United Kingdom (UK), 8/2007). EH40-WEL 8 hrs. limit: 0.1 mg/m ³ 8 hour(s)
8.2. Personal protective equipment	
Respiratory protection	Generally not required. In the case of aerosol-mist formation protection is essential. Where adequate ventilation is not available, use CEN-personal protective equipment (89/686/EEC). Recommended: 3M8825 Particulate Respirator - valved. Classification: EN 149:2001 FFP2RD, suitable for mists.
Hand protection	Protective gloves recommended
Eye protection	Goggles giving full protection required.
Hygiene measures	Observe standard industrial hygiene practices for handling of chemical substances. Avoid contact with skin, eyes. Keep the container closed when not in use. Emergency eye wash station and emergency shower should be readily available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. APPEARANCE	
Form	Powder, fine
Colour	Off White in colour
Odour	No Special odour
9.2. SAFETY DATA	
pH (undiluted)	5.0 to 8.0
Boiling point	Not applicable
Melting point	Not known
Flash point	Not flammable
Flammability	Non flammable
Auto flammability of active ingredients	Not determined
Explosive properties	Not applicable
Oxidising properties	Not determined
Vapour pressure	Not determined
Relative density	Typical > 1.4
Solubility in water	Soluble
9.3. OTHER DATA	
Vapor density	Not determined
Evaporation rate	Not determined
Conductivity	Not determined
Viscosity	Not applicable
Volatile	<2% max.

10. STABILITY AND REACTIVITY

If stored and handled in accordance with standard industrial practice no hazardous reactions are known.

10.1. Stability	Stable under NTP
10.2. Reactivity	No specific hazard to be mentioned
10.3 Conditions to avoid	Heating and cooling
10.4 Materials to avoid contact	Do not bring in contact with any other chemicals except compatible products known in Sewage treatment industry
10.6 Hazardous decomposition	Oxide of sulphur

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects	
On Skin	No significant effect
Eyes	May cause irritation to eyes

Ingestion	Oral toxicity LD50 was found to be >2000 mg/kg body weight in rat.
Chronic health effects	No chronic effects known from short or long term exposures.
Teratogenicity	No data available
Carcinogenic	Non-carcinogenic IARC : No component of this product is identified as a probable or confirmed human carcinogen by IARC.

12. DISPOSAL CONSIDERATIONS

13.1. Product disposal	Dispose off according to regulations by incineration in a special waste incinerator. Observe local byelaws.
13.2. Packaging disposal	Since packaging material does not get contaminated, it may be reused after thorough soap washing. Observe local bye-laws.
13.3 RCRA classification	Non-hazardous if ICPOES /AAS testing confirm waste does not exhibit the characteristic of toxicity.

13. ECOLOGICAL INFORMATION

12.1. Toxicity	Not toxic to aquatic environment. Aquatic toxicity –LC50 - > 11mg/l. Oral toxicity LD50 >2000 mg/kg
12.2. Persistence & degradability	Not determined as per OECD 302B
12.3. Bio accumulative potential	Not bio accumulative
12.4. Mobility	Not known
12.5. Behavior in sewage	BOD – for 10gpl solution <2g/l and COD – for 10gpl solution <5g/l.
12.6 Other adverse effects	Not known

14. TRANSPORT INFORMATION

14.1. UN No.	Not applicable
Symbols	Not applicable
14.2. Road & Rail transport	Handling requirements applicable as per label
14.3. GGVS/GGVE	Non-hazardous, irritant
14.4. IMDG code	Non-dangerous
14.5. DOT classification	Not applicable
14.6. Air Transport(ICAO/IATA)	Non hazardous

15. REGULATORY INFORMATION

15.1. Health and safety Information on labels	Non hazardous, irritant Precautionary statements P233 – Keep container tightly closed. P234 – Keep only in original container. P235 + P410 – Keep cool. Protect from sunlight. P262 – Do not get in eyes, on skin, or on clothing.
15.2. EINECS	Exempted
15.3. Product risk classification	None
15.4. Product risk phrase	R36 – Irritation to eyes
15.5. Product safety phrase	S 25 – Avoid contact with eyes S 36 – Wear suitable protective clothing S 39 – Wear eye/face protection
15.6. OSHA	None of the chemicals in this product is considered as hazardous by OSHA
15.7. SARA 302/313 Components	No chemicals in this material are subject the reporting requirements of SARA
15.8. SARA 311/312 Hazards	No SARA hazards
15.9. PA/ NJ/ MA RIGHT TO KNOW COMPONENTS	Already declared under composition
15.10. CA PROP 65 Components	This product does not contain any chemicals known to the State of CA to cause cancer, birth defects, or any other reproductive harm.
15.11. European Inventory	All components are listed and considered Non-hazardous and non-dangerous.
15.12. Industrial use	The information contained in the data sheet does not relieve the user from the obligation to perform work place related safety and risk assessments as required by local regulations

16. OTHER INFORMATION AND DATA

The information and data contained in this “Material Safety Data Sheet” is based on our present state of scientific and technical knowledge. Gamyam Bio & Renewable Solutions Pvt. Ltd. does not guarantee the properties of the described products in terms of legal warranty regulations. In all cases, it is the responsibility of the user to determine the applicability of such information or the suitability of any products for their own particular purpose. The physical data presented herein does not purport to be the specifications. The structure and contents of information other than the data are based on ANSI Z400.1-2004 and GHS (globally harmonised system) and European union safety data sheet directive 91/155/EEC.