	QUALITY MANAGEMENT SYSTEM	Document No.	Form 41
	SHEQ BIOTREAT	Revision	0
		Revision date	2022/06/08

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
GHS PRODUCT IDENTIFIER
BIOTREAT

OTHER MEANS OF IDENTIFICATION

CAS:	Not listed in registry
EC:	Not listed in registry
RTECS:	Not listed in registry
ICSC:	Not listed in registry
CHEMICAL FAMILY:	Mixture not identified
SYNONYMS:	INT Biotreat
PROPER SHIPPING NAME:	NOT REGULATED FOR TRANSPORT
CHEMICAL FORMULA:	Mixture not identified
PRODUCT STOCK CODE/S:	INT001(25Kg),EXT024(25Kg)
SDS LINK:	http://aquatradesa.ddns.net/owncloud/index.php/s/nJ1Vn98NpVI5Qdc

RECOMMENDED USE	RESTRICTIONS ON USE
<p>BIOTREAT is a ready to use multiple spore blend formation specifically designed for portable toilets, RV's, and marine holding tanks to accelerate the biodegradation of organic waste while reducing odour. This formulation is designed specifically as an odour controller and offers a safe, natural replacement for formaldehyde and quaternary compounds.</p> <p>BIOTREAT is a bacterial formulation designed to provide exceptional performance for the following applications:</p> <ul style="list-style-type: none"> • Odour Controller • Portable Toilet Treatment • RV Treatment • Marine Holding Tank Treatment 	<p>Not for end consumer use. Not for food, drug, or household use.</p>

SUPPLIER'S DETAILS

AQUATRADE WATER TREATMENT CHEMICALS (PTY) LTD

12 Diesel St, Isando PO Box 357
Gauteng, South Africa Isando
Tel: +27 11 394 0752
info@aquatradesa.co.za
www.aquatradesa.co.za

SDS Enquiries only

sheq@aquatradesa.co.za Tel: +27 87 654 3326

EMERGENCY PHONE NUMBER		
NAME	TEL	HOURS AVAILABLE
E. le Sar	+27 82 921 0643	Mon. – Fri. 05:00 –20:00 GMT
Spilltech	+27 86 100 0366	24/7

SECTION 2 — HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS LABEL ELEMENTS

None.

SIGNAL WORD: None

GHS HAZARD CODES

None.

HS PRECAUTIONARY CODES

Do not handle until all safety precautions have been read and understood.

Do not get in eyes, on skin, or on clothing.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Get medical advice/ attention if you feel unwell.

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE	CAS	EC	MIN %	MAX %	HAZARD NOTES
Dodecan-1-ol, ethoxylated	9002-92-0	500-002-6		< 5	H412: Harmful to aquatic life with long lasting effects. H302: Harmful if swallowed. H319: Causes serious eye irritation.
Fragrances	72968-50-4	277-143-2		< 1	H226: Flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H411: Toxic to aquatic life with long lasting effects.
Biological Fermentation Product					

SECTION 4 — FIRST-AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES

IF INHALED	Not expected to present a significant inhalation hazard under anticipated conditions of normal use. In case of inhalation remove to fresh air. Give artificial respiration if victim is not breathing.
IF IN CONTACT WITH EYES	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
IF IN CONTACT WITH SKIN	Skin irritation should not occur when used as recommended. If irritation occurs, rinse well with cool water.
IF INGESTED	DO NOT induce vomiting. Get medical attention if symptoms are severe or persist. Rinse mouth thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person.

GENERAL ADVICE	If you feel unwell, seek medical advice (show the label where possible).
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MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE and DELAYED

IF INHALED	The product is considered to be a low hazard under normal conditions of use.
IF IN CONTACT WITH EYES	The product is considered to be a low hazard under normal conditions of use.
IF IN CONTACT WITH SKIN	The product is considered to be a low hazard under normal conditions of use.
IF INGESTED	The product is considered to be a low hazard under normal conditions of use.

INDICATION OF IMMEDIATE MEDICAL ATTENTION & SPECIAL TREATMENT NEEDED, IF NECESSARY

Seek medical attention if any irritation persists after contact, swallowing or inhalation of product after initial first aid measures. Treat symptomatically.

SECTION 5 — FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA	Small Fires: Carbon dioxide (CO2). Powder. Water spray. Alcohol-resistant foam. Large Fires: Water spray, fog, or regular foam.
EXTINGUISHING MEDIA NOT SUITABLE	None in particular.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	None in particular. Avoid inhaling the fumes.
SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS incl. PPE	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use fire-extinguishing media suitable for the surrounding fire. Fight fire with normal precautions from a reasonable distance. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses. Contain and collect extinguishing water.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PPE & EMERGENCY PROCEDURES	All personnel involved in spill clean-up should follow good industrial hygiene practices and avoid skin and eye contact by wearing appropriate personal protective equipment. Persons not wearing protective equipment as indicated in section 8 should be excluded from the area.
ENVIRONMENTAL PRECAUTIONS	DO NOT let product enter drains. Discharge into the environment must be avoided.
METHODS & MATERIALS FOR CONTAINMENT & CLEANING UP	Safely stop source of spill if safe to do so. Restrict non-essential personnel from area. Absorb with inert material. Scoop up and place in suitable labelled waste containers. Rinse contaminated area to chemical drain system.

SECTION 7 — HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Usage precautions : For external use only. Avoid contact with eyes. If eye contact occurs, rinse well with cool water. DO NOT use on broken or inflamed skin. Keep out of the reach of children. Harmful to aquatic life with long lasting effects. Avoid release to the environment. Store upright, out of direct sunlight, in a cool, dry place. DO NOT allow contents to freeze. Advice on general occupational hygiene: DO NOT eat, drink, or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.
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CONDITIONS FOR SAFE STORAGE	Keep this product in tightly closed original container in cool area away from heat and strong oxidising agents. DO NOT store in mild steel containers unless suitably lined. Store in an area without drain or sewer access.
INCOMPATIBILITIES	Material: Strong oxidizing agents and reducing agents. Conditions: Avoid high temperatures.
SANS 10263-0 WAREHOUSING	No provisions.




SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS (OEL)	Contains no substances with occupational exposure limit values.
ADDITIONAL EXPOSURE LIMITS UNDER THE CONDITIONS OF USE	Contains no substances with biological exposure indices.
DNEL/DMEL AND PNEC-VALUES	Not additional data.

APPROPRIATE ENGINEERING CONTROLS

Avoid spilling when handling the product. Supply safety shower and eyewash in immediate vicinity of exposure area.
Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

INDIVIDUAL PROTECTION MEASURES

EYE PROTECTION		Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Contact lenses should not be worn as they may contribute to severe eye injury.
FACE PROTECTION		No face protection required under normal use conditions.
HAND PROTECTION		Handle with gloves, PVC, Nitrile, or Rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves.
BODY PROTECTION		Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
RESPIRATORY PROTECTION		No respiratory protection required under normal use conditions.

NOTE: The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Recommendations above is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (PHYSICAL STATE, COLOUR ETC):	Dark Blue Liquid
ODOUR:	Strong Bubblegum
ODOUR THRESHOLD:	No additional data available.
pH:	5.0 – 9.0
MELTING/FREEZING POINT:	No additional data available.
INITIAL BOILING POINT AND BOILING RANGE:	No additional data available.
FLASH POINT:	Do not flash.
EVAPORATION RATE:	No additional data available.
FLAMMABILITY (SOLID, GAS):	Not flammable.
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	Not explosive
VAPOUR PRESSURE:	No additional data available.
VAPOUR DENSITY:	No additional data available.
RELATIVE DENSITY:	1.00 – 1.02
SOLUBILITY(IES):	Soluble in water.
PARTITION COEFFICIENT: N-OCTANOL/WATER:	No additional data available.
AUTO-IGNITION TEMPERATURE:	No additional data available.
DECOMPOSITION TEMPERATURE:	No additional data available.
VISCOSITY:	No additional data available.
OXIDIZING PROPERTIES:	No additional data available.

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

SECTION 10 — STABILITY AND REACTIVITY

REACTIVITY	Very soluble in water.
CHEMICAL STABILTY	Stable under normal conditions of storage, handling, and transport.
POSSIBILTY of HAZARDOUS REACTIONS	Polymerization will not occur.
CONDITIONS TO AVOID	Avoid high temperatures.
INCOMPATIBLE MATERIALS	None known.
HAZARDOUS DECOMPOSITION PRODUCTS	In case of fire, the following can be released: carbon monoxide (CO), carbon dioxide (CO ₂), smoke, soot.

SECTION 11 — TOXICOLOGICAL INFORMATION

TOXICOLOGICAL (HEALTH) EFFECTS

ACUTE TOXICITY	Based on available data, the classification criteria are not met.
SKIN CORROSION/IRRITATION	Based on available data, the classification criteria are not met.
SERIOUS EYE DAMAGE/EYE IRRITATION	Based on available data, the classification criteria are not met.
RESPIRATORY OR SKIN SENSITIZATION	Based on available data, the classification criteria are not met.
GERM CELL MUTAGENICITY	Based on available data, the classification criteria are not met.
CARCINOGENICITY	Based on available data, the classification criteria are not met.
REPRODUCTIVE TOXICITY	Based on available data, the classification criteria are not met.
SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE	Based on available data, the classification criteria are not met.
SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE	Based on available data, the classification criteria are not met.
ASPIRATION HAZARD	Based on available data, the classification criteria are not met.

LIKELY SOURCES OF EXPOSURE

INHALATION	EYES	SKIN	INGESTION
Rare	Unlikely	Likely	Rare
Possible exposure during mixing.	Possible exposure during mixing.	Possible exposure during mixing.	Possible exposure in case of unhygienic practices.

SYMPTOMS RELATED TO PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

No known symptoms.

DELAYED/IMMEDIATE/CHRONIC EFFECTS FROM LONG/SHORT TERM EXPOSURE

No known delayed effects. Immediate effects limited to irritation of eyes if in contact.

NUMERICAL MEASURES OF TOXICITY (SUCH AS ATE)

ACUTE ORAL TOXICITY: LD50 Mouse: >5 000 mg/kg

INTERACTIVE EFFECTS

No additional information available.

WHERE SPECIFIC CHEMICAL DATA IS NOT AVAILABLE

No additional information available.

MIXTURES

No additional information available.

MIXTURES VS INGREDIENTS INFORMATION

No additional information available.

OTHER INFORMATION

No additional information available.

SECTION 12 — ECOLOGICAL INFORMATION

TOXICITY

TEST	SPECIES	VALUE Calculated as per GHS Additivity Formula
48Hr EC50	Fish	> 100 mg/L
48Hr EC50	Algea	> 100 mg/L
48Hr EC50	Daphnia	> 100 mg/L

PERSISTENCE AND DEGRADABILITY

No test data for mixture.

OECD Test Guideline 301 (A-F)	
BOD ₅	No additional data available.
COD	No additional data available.

BIOACCUMULATIVE POTENTIAL

No test data for mixture.

PARTITION COEFFICIENT: N-OCTANOL/WATER	
LOG-K _{ow}	No additional data available.
BIOCONCENTRATION FACTOR	
BCF	No additional data available.

MOBILITY IN SOIL

No test data for mixture.

OTHER ADVERSE EFFECTS

No additional data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL RECOMMENDATION

Dispose of waste and container in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport, or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Remove for physico-chemical/biological treatment. Avoid discharge into drains or the environment.

ECOLOGY – WASTE MATERIAL

Avoid release to the environment.

EMPTY CONTAINER

Avoid reusing empty container for other storage. Consider re-filling. Rinse/Decontaminate thoroughly before re-filling, discarding in waste or return to supplier. Puncture container before discarding as waste.

SECTION 14 — TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION	ADR/RID	ADN(R)	IMDG	ICAO/IATA
UN NUMBER	NOT REGULATED FOR TRANSPORT			

TRANSPORT IN BULK ACCORDING TO ANNEX II of MARPOL 73/78 and THE IBC CODE

Not applicable.

SECTION 15 — REGULATORY INFORMATION

SA NATIONAL LEGISLATION

Hazardous Substances Act 15 of 1973 and Regulations.
Occupational Health and Safety Act 85 of 1993 and Regulations.
National Environmental Management Act 107 of 1998 and Regulations.

SA NATIONAL STANDARDS

SANS 10228: 2006: Identification and Classification of Dangerous Goods for Transport by Road and Rail.
SANS 10231: 2018: Transport of dangerous goods - Operational requirements for road vehicles.
SANS 10234: 2008: Globally Harmonized System of classification and labelling of chemicals (GHS).
SANS 11014: 2010: Safety Data Sheets for chemical Products.

REACH Regulation (EC) No 1907/2006

This product contains only components that have been either pre-registered, registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH)., The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer’s/user’s responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

Seveso III: Directive 2012/18/EU

Listed in Regulation: Not applicable

Chemical safety assessment

Not assessed.

SECTION 16 — OTHER INFORMATION

FULL TEXT OF H & P - STATEMENTS REFERRED TO UNDER SECTION 2

HAZARD STATEMENTS	PRECAUTIONARY STATEMENTS
None.	P202: Do not handle until all safety precautions have been read and understood. P262: Do not get in eyes, on skin, or on clothing. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P314: Get medical advice/ attention if you feel unwell.

LABELLING SANS 10234:2008

SIGNAL WORD: NONE

PICTOGRAMS

PHYSICAL & HEALTH HAZARD	ENVIRONMENTAL HAZARD	TRANSPORT
N/A	N/A	N/A

LEGEND TO ABBREVIATIONS & ACRONYMS

ABEK: Organic gases and vapours (BP>65°C);
Inorganic gases and vapours; Sulphur dioxide and other acid gases and vapours; Ammonia and organic ammonia derivatives

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

BCF: Bioconcentration Factor

BOD5: Biological Oxygen Demand in 5

CAS: Chemical Abstracts Service

CEN: European Committee for Standardization

COD: Chemical Oxygen Demand

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level

EC: European Commission

EC50: Half Maximal Effective Concentration

EMS: Emergency Medical Services

ERG: Emergency Response Guidelines

EU: European Union

GHS: Globally Harmonized System

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

ICSC: International Chemical Safety Cards

IMDG: International Maritime Dangerous Goods

LC50: Lethal Concentration 50 (concentration in water having 50% chance of causing death to aquatic life)

LD50: Lethal Dose 50 (median concentration of a toxicant that will kill 50% of the test animals within a designated period)

LOG-KOW: Logarithm - Octanol - Water Partition Coefficient

NIOSH: National Institute for Occupational Safety and Health (US CDC)

NTP: National Toxicology Program

OEL: Occupational Exposure Limit

OSHA: Occupational Safety and Health Administration

P, B, L & O: Packaging, Bulk Transport, Loading Operation & Transport Operation

PBT: Persistent, Bio accumulative, and Toxic

PNEC: Predicted No-Effect Concentration

PPE: Personal Protection Equipment

RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail

RTECS: Registry of Toxic Effects of Chemical Substances

SANS: South African National Standard

vPvB: Very Persistent Very Bio Accumulative

KEY LITERATURE REFERENCES AND SOURCES

ECHA – European Chemicals Agency

<https://echa.europa.eu/de/registration-dossier/-/registered-dossier/10916/1/1>

<https://echa.europa.eu/de/registration-dossier/-/registered-dossier/10196/1/1>

TRAINING ADVICE

Ensure SDS is always available to users. Provide adequate information, instruction, and training for operators.

COMPILED BY: Aquatrade Water Treatment Chemicals (Pty) Ltd, R. van Rooyen, SHEQ Coordinator.

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08 June 2022	0	0	Original

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