ONE/Biotechnology

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03

Issue Date 1/2/2015

1 – Identification

Product identifier

Trade name: BioOne Dry

Relevant identified uses of the substance or mixture and uses advised against

Product description – Treatment for common wastewater organics

Application of the substance/the mixture – Biological, industrial and municipal wastewater treatment.

Manufacturer/Supplier:

One Biotechnology
P.O. Box 758
Oneco, FL 34264
941-355-8451

Emergency telephone number: Chemtrec 1-800-424-9300 or outside USA 1-703-527-3887

2 – Hazard(s) Identification

Classification of the substance or mixture

GHS08 Health Hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Label elements

GHS label elements - The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

GHS08

Signal word – Danger

Hazard-determining components of labeling:

Amylase, alpha-

Hazard statements – May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements – Wear respiratory protection.

Avoid breathing dust/fume/gas/mist/vapors/spray

If experiencing respiratory symptoms: Call a poison center/doctor

If inhaled – If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity – 75 percent of the mixture consists of ingredients of unknown toxicity.

Classification system

NFPA ratings (scale 0 – 4)

Health = 1
Fire = 0
Reactivity = 0

HMIS ratings (scale 0 – 4)

Health Hazard	1
Fire Hazard	0
Reactivity	0

Other hazards – None known

3 – Composition/Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

9000-90-2	Amylase, alpha-	 Resp. Sens. 1, H334	≤ 2.5%
144-55-8	Sodium Hydrogencarbonate		15-35%

4 – First-Aid Measures

Description of first aid measures

After inhalation: Supply fresh air, consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If swallowed and symptoms occur, consult a doctor.

Information for doctor: Most important symptoms and effects, both acute and delayed – No further relevant information available. *Indication of any immediate medical attention and special treatment needed* – No further relevant information available.

5 – Fire-fighting Measures

Extinguishing media

Suitable extinguishing agents: Co2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture: In incinerated, product will release the following: Carbon Oxides, Sodium Oxides, Calcium Oxides and Phosphorous Oxides.

Advice for firefighters

Protective equipment: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Avoid breathing dust. Avoid formation of dust. Wear dust mask.

Environmental precautions: Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up: Dispose of the collected material according to regulations.

Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information

7 – Handling and Storage

Handling:

Precautions for safe handling: No special precautions are necessary if used correctly.

Information about protection against explosions and fires: No special measure required.

Conditions for safe storage, including any incompatibilities: Store away from strong acids, strong oxidizing agents and moisture (water).

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None

Specific end use(s): No further relevant information available.

8 – Exposure Controls/Personal Protection

Additional information about design of technical systems: No further data; see Section 7.
Control parameters – All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.
Components with occupational exposure limits: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: The lists that were valid during the creation were used as basis.
Exposure controls
Personal protective equipment: General protective and hygienic measures: Wash hands before breaks and at the end of work.
Breathing equipment: Dust mask
Protection of hands: The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/ the chemical mixture. Select glove material based on penetration times, rates of diffusion and degradation.
Material of gloves – The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the applications.
Penetration time of glove material – The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.
Eye protection: If working in conditions where dust may form, safety glasses/goggles are recommended.

9 – Physical and Chemical Properties

Information on basic physical and chemical properties
General Information
Appearance: Form – Powder *Color* – Tan
Odor: Bland

Odor threshold:	Not determined

pH-value: Not applicable
Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined.

Flash point: Not applicable

Flammability (solid, gaseous):	Not determined.

Ignition temperature

Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined
Upper:	Not determined.

Vapor pressure:	Not applicable
Density:	
Relative density:	Not determined.
Vapor density:	Not applicable
Evaporation rate:	Not applicable
Solubility in/Miscibility with water:	Soluble
Partition coefficient (n-octano/water):	Not determined.
Viscosity:	
Dynamic:	Not applicable
Kinematic:	Not applicable
Solvent content:	
Organic solvents:	0.0%
Solids content:	100%

Other information: No further relevant information available.

10 – Stability and Reactivity

Reactivity: No further relevant information available.
Chemical stability: Stable under normal conditions.
Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.
Possibility of hazardous reactions: No dangerous reactions known.
Conditions to avoid: No further relevant information available.
Incompatible materials: Strong acids and strong oxidizing agents.
Hazardous decomposition products: Carbon Oxides, Sodium Oxides, Calcium Oxides and Phosphorous Oxides

11 – Toxicological Information

Information on toxicological effects
Acute toxicity:
LD/LC50 values that are relevant for classification:
9000-90-2 Amylase, Alpha - Oral LD50 >7500 mg/kg (rat):
144-56-8 Sodium Hydrogencarbonate - Oral LD50 4220 mg/kg (rat)
Primary irritant effect: *Skin* – No irritating effect. *Eyes* – No irritating effect. *Additional toxicological information:*
Carcinogenic categories
IARC (International Agency for Research on Cancer)
None of the ingredients are listed.
Group 1 – Carcinogenic to humans
Group 2A – Probably carcinogenic to humans
Group 2B – Possibly carcinogenic to humans
Group 3 – Not classifiable as to its carcinogenicity to humans
Group 4 – Probably not carcinogenic to humans
NTP (National Toxicology Program) - None of the ingredients are listed.
OSHA-Ca (Occupational Safety & Health Administration) – None of the ingredients are listed.

12 – Ecological Information

Toxicity – The hazards for the aquatic environment are unknown.
Aquatic toxicity: No further relevant information available.
Persistence and degradability: No further relevant information available.
Behavior in environmental systems:
Bioaccumulative potential: No further relevant information available.
Mobility in soil: No further relevant information available.
Additional ecological information:
General notes: Not known to be hazardous to water.
Results of PBT and vPvB assessment
PBT: Not applicable *vPvB*: Not applicable
Other adverse effects: No further relevant information available.

13 – Disposal Considerations

Waste treatment methods
Recommendation: Small quantities can be disposed of with household waste. Recycle or dispose with household trash.
Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agent: Water, if necessary with cleansing gents.

14 – Transport Information

UN-Number
DOT, ADR, ADN, IMDG, IATA Non-Regulated Material
UN proper shipping name
DOT, ADR, ADN, IMDG, IATA Non-Regulated Material
Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA
Class Non-Regulated Material
Packing group
DOT, ADR, IMDG, IATA Non-Regulated Material
Environmental hazards: Not applicable.
Special precautions for user Not applicable
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable
UN "Model Regulation"

15 – Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Sara
Section 355 (extremely hazardous substances): None of the ingredients are listed
Section 313 (specific toxic chemical listings): None of the ingredients are listed.
TSCA (Toxic Substances Control Act):
144-55-8 – Sodium Hydrogencarbonate 9000-90-2 – Amylase, Alpha-
Proposition 65
Chemicals known to cause cancer: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.
Chemical known to cause reproductive toxicity for males: None of the ingredients are listed.
Chemicals known to cause developmental toxicity: None of the ingredients are listed.
Carcinogenic categories
EPA (Environmental Protection Agency): None of the ingredients are listed.
TLV (Threshold Limit Value established by ACGIH): None of the ingredients are listed.
NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients are listed.
GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).
Hazard pictograms  GHS08

Signal word: Danger
Hazard-determining components of labeling: Amylase, alpha-
Hazard statements: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements:
Wear respiratory protection.
Avoid breathing dust/fume/gas/mist/vapors/spray
If experiencing respiratory symptoms: Call a poison center/doctor
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
Dispose of contents/container in accordance with local/regional/national/international regulations.
National regulations: The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.
State Right to Know

	Trade Secret		70-90%
144-55-8	Sodium Hydrogencarbonate		15-35%
9000-90-2	Amylase, alpha-	 Resp. Sens. 1, H334	≤2.5%
All ingredients are listed.			

Chemical safety assessment: A chemical Safety Assessment has not been carried out.

16 – Other Information

The information and recommendations in this safety date sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Abbreviations and acronyms:
ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
AND: The European Agreement concerning the international Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Coe for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Resp. Sens. 1: Sensitization – Respirat., Hazard Category 1