SAFETY DATA SHEET

Date stamp:

29-Jul-2005

MSDS Ref. No.: 100099

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

 Product name:
 Man-O-War Enzymes Enhancer

 Description:
 Water Soluble All Purpose Biological Enhancing Solution

Company

Sea Horse Mfg. 5802 Paradise Lane New Iberia, LA 70560 24-HOUR EMERGENCY TELEPHONE NUMBERS: CHEMTREC (U.S.): 1-800-424-9300 CHEMTREC (International): 1-703-527-3887 Non-Emergency Calls: 1-937-644-0011

Formula No.: S10385 Plus Water and Coloring

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status:	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Labelling Signal word:	No signal word.
Precautionary Statement Potential health effects	Keep out of reach of children.
Eye contact:	Contact with eyes may cause irritation.
Skin contact:	Irritation not expected. Irritation possible.
Ingestion:	Considered practically non-toxic. Possible gastrointestinal tract irritation.
Inhalation:	May cause irritation of respiratory tract.
Aggravated Medical Conditions: Principle routes of exposure:	Inhalation may aggravate asthma. Skin, Inhalation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
di-Sodium-EDTA	139-33-3	<0.1
Potassium Phosphate	7778-77-0	10-30
Boric acid, H3BO3	10043-35-3	0.1-1.0
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	<0.1
Iron EDTA	15708-41-5	1.0-5.0
Manganese EDTA	15375-84-5	0.1-1.0
Potassium chloride, KCI	7447-40-7	10-30
Copper sulphate, CuSO4	7758-98-7	0.1-1.0
Zinc Sulfate	7733-02-0	0.1-1.0
Ammoniumsulphate, (NH4)2SO4	7783-20-2	10-30
Urea	57-13-6	30-60

4. FIRST AID MEASURES

Eye contact:	Hold eye open and rins slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice
Skin contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice
Ingestion:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so be a poison control center or doctor. Do not give anything by mouth to an unconscious person
Inhalation:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferabley by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice
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5. FIRE-FIGHTING MEASURES

Flammable properties: Suitable extinguishing media: Explosion potential: **Explosive properties:** Hazardous combustion products: Fire fighting procedures: Special protective equipmentfor firefighters:

Decomposes on heating. Water spray, carbon dioxide, dry chemical, chemical foam No information available. No information available. No information available. No information available. In the event of fire, wear self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

7. HANDLING AND STORAGE

Handling: Avoid container breakage

Storage: Keep containers tightly closed in a cool, well-ventilated place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH:	OSHA:	
Ammoniumsulphate, (NH4)2SO4	Not Listed	Not Listed	
Potassium Phosphate	Not Listed	Not Listed	
Potassium chloride, KCl	Not Listed	Not Listed	
Urea	Not Listed	Not Listed	
Boric acid, H3BO3	2 mg/m ³ TWA inhalable fraction, listed under borate	Not Listed	
	compounds, inorganic		
Manganese EDTA	0.2 mg/m³ TWA	Not Listed	
Iron EDTA	1 mg/m ³ TWA as Fe	Not Listed	
Copper sulphate, CuSO4	0.2 mg/m ³ TWA fume	0.1 mg/m ³ TWA fume	
	1 mg/m ³ TWA dusts and mists, as Cu	1 mg/m ³ TWA dusts and mists	
Zinc Sulfate	Not Listed	Not Listed	
Sodium molybdate, Na2MoO4+2H2O	0.5 mg/m ³ TWA respirable fraction, as Mo	15 mg/m ³ TWA total dust	
	10 mg/m ³ TWA inhalable fraction	5 mg/m³ TWA as Mo	
	3 mg/m ³ TWA respirable fraction		
di-Sodium-EDTA	Not Listed	Not Listed	
Engineering controls	Use adequate ventilation to keep the airborne concent exposure standard	rations of this material below the recommended	
Personal ProtectiveEquipment			
Eye/face protection:	Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur.		
Skin and body protection:	Wear suitable protective clothing if contact is anticipated during manufacturing. Imervious gloves.		

If airborne levels are high or product does not remain intact, use a combination of engineering controls (e.g. ventilation) and personal protection (e.g. NIOSH/MSHA approved respirator for dusts, mists, and fumes

General hygiene considerations:

Respiratory protection:

Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES				
Physical State:	Liquid	Appearance:	Liquid	
Color:	Green	pH:	3.0 - 4.0	
Bulk density: Flash point:	45-50 lbs/cu.ft. Not applicable	Solubility:	Water solubility, Highly soluble (>80%)	

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10. STABILITY AND REACTIVITY

Chemically Stable:	Yes
Conditions to avoid:	Damp or wet conditions. Extreme heat.
Materials to avoid:	Oxidizing agents. Metals. Bases.
Hazardous decomposition products:	Toxic fumes and gases may be generated. Metal oxides possible.
Possibility of hazardous reactions:	Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Eye effects: Contact with eyes may cause irritation Skin effects: May cause skin irritation and/or dermatitis

Chronic toxicity

Carcinogenic effects:

The table below indicates whether each agency has listed any indgredient as a carcinogen.

Components	NTP:	IARC:	OSHA:
Ammoniumsulphate, (NH4)2SO4	Not listed	Not listed	Not listed
Potassium Phosphate	Not listed	Not listed	Not listed
Potassium chloride, KCI	Not listed	Not listed	Not listed
Urea	Not listed	Not listed	Not listed
Boric acid, H3BO3	Not listed	Not listed	Not listed
Manganese EDTA	Not listed	Not listed	Not listed
Iron EDTA	Not listed	Not listed	Not listed
Copper sulphate, CuSO4	Not listed	Not listed	Not listed
Zinc Sulfate	Not listed	Not listed	Not listed
Sodium molybdate, Na2MoO4+2H2O	Not listed	Not listed	Not listed
di-Sodium-EDTA	Not listed	Not listed	Not listed

General Information	Very low toxicity for humans and animals
Ingestion:	Health injuries are not known or expected under normal use
Inhalation:	Health injuries are not known or expected under normal use

12. ECOLOGICAL INFORMATION

Ecotoxicity effects:	No data is available on the product itself.
Persistence and degradability:	Inherently biodegradable. Non-persistent.
Bioaccumulative potential:	Does not bioaccumulate.
Mobility:	Water contaminating.
Aquatic toxicity:	May be beneficial to plant life.
Additional ecological information:	Do not apply directly to lakes, streams, or ponds.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:Apply as fertilizer to field. Dispose of in accordance with local regulations and national regulations.Contaminated packaging:Do not re-use empty containers. If empty, place in trash or offer for recycling if available.

14. TRANSPORT INFORMATION

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

Not regulated

15. REGULATORY INFORMATION

DOT Proper shipping name:

Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Ammoniumsulphate, (NH4)2SO4	7783-20-2	Not Listed	Not Listed
Potassium Phosphate	7778-77-0	Not Listed	Not Listed
Potassium chloride, KCl	7447-40-7	Not Listed	Not Listed
Jrea	57-13-6	Not Listed	Not Listed
Boric acid, H3BO3	10043-35-3	Not Listed	Not Listed
Manganese EDTA	15375-84-5	Not Listed	Not Listed
ron EDTA	15708-41-5	Not Listed	Not Listed
Copper sulphate, CuSO4	7758-98-7	10 lb final RQ	Not Listed
		2270 kg final RQ	
		4.54 kg final RQ	
		5000 lb final RQ	
Zinc Sulfate	7733-02-0	1000 lb final RQ	Not Listed
		454 kg final RQ	
		454 kg final RQ	
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	Not Listed	Not Listed
di-Sodium-EDTA	139-33-3	Not Listed	Not Listed

General Information

16 OTHED INCODMATION

Contact local authorities for disposal of large quantities of product

10. OTHER INFORMATION				
<u>NFPA:</u>	Health: 1	Flammability: 0	Reactivity: 0	
<u>HMIS:</u>	Health: 1	Flammability: 0	Reactivity: 0	

Hazard Rating: 0=Least; 1-Slight; 2=Moderate; 3=High; 4=Severe

General comment: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

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