MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BIO STOP

GENERAL USE: Algae control

PRODUCT DESCRIPTION: Solid, lemon odor



MANUFACTURER'S NAME		DATE PREF		er 14, 2007	Page 1 of 4
Maintenance Materials Resource			SUPERSEDES: December 5, 2004		
ADDRESS (NUMBER, STREET, P.O. BOX)			E NUMBER FOR IN	NFORMATION	
1016 Industry Drive	221111	(704) 487-			
(CITY, STATE AND ZIP CODE)	COUNTRY		Y TELEPHONE N		10) 040 0505
Shelby, NC 28152	USA	ChemTelT	nc. 1- (800) 255-39	924 Intl. + 01 (8	13) 248-0585
DISTRIBUTOR'S NAME Same					
ADDRESS (NUMBER, STREET, P.O. BOX)		TELEPHON	E NUMBER FOR IN	FORMATION	
(CITY, STATE AND ZIP CODE)	COUNTRY	EMERGENCY TELEPHONE NUMBER			
SECTION	2 - HAZARD	OUS INGI			
HAZARDOUS COMPONENTS	CAS#	%	OSHA PEL	ACGIH TWA	SARA R
		(by weight)	PPM MG/M3	PPM MG/M	3 111122111 22
n-alkyl Dimethyl Benzyl Ammonium Chloride	68391-01-5	16.0	not establish		
n-alkyl Dimethyl Ethylbenzyl Ammonium Chloride	68956-79-6	16.0	not establish	ned	
EMERGENCY OVERVIEW	3 - HAZARD			and symbols for the	vic product. Yi
EMERGENCY OVERVIEW Mild liquid, prolonged contact may cause skin & eye Risk Phrases - R 36/38 POTENTIAL HEALTH EFFECTS	irritation. Ingestion	ı may cause ga	stric distress. Haza	ard symbols for th	is product - Xi.
EMERGENCY OVERVIEW Mild liquid, prolonged contact may cause skin & eye Risk Phrases - R 36/38 POTENTIAL HEALTH EFFECTS INHALATION: Breathing concentrated vapors may concentrated.	irritation. Ingestion	ı may cause ga	stric distress. Haza	ard symbols for th	is product - Xi.
EMERGENCY OVERVIEW Mild liquid, prolonged contact may cause skin & eye Risk Phrases - R 36/38 POTENTIAL HEALTH EFFECTS INHALATION: Breathing concentrated vapors may concen	irritation. Ingestion	ı may cause ga	stric distress. Haza	ard symbols for th	is product - Xi.
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SECTION 4 - FIRST AID MEASURES

INHALATION: Remove affected person to fresh air; if symptoms persist seek medical attention.

SKIN: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

EYES: Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

INGESTION: Give two glasses of water for dilution; DO NOT induce vomiting; never give anything by mouth to an unconscious person; seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED)

FLAMMABLE LIMITS

LEL: Not applicable

UEL: Not applicable

> 200° F (> 93.3° C)

AUTOIGNITION TEMPERATURE:

Not determined

NFPA CLASS:

GENERAL HAZARDS: Product will support combustion. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

EXTINGUISHING MEDIA

Carbon dioxide, water fog, dry chemical, chemical foam

FIRE FIGHTING PROCEDURES

Self - contained respiratory equipment; cool containers to prevent pressure buildup and possible explosion when exposed to extreme heat. Caution - material will support combustion!

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers can explode due to buildup of pressure when exposed to extreme heat.

HAZARDOUS COMBUSTION PRODUCTS

Smoke, fumes, oxides of carbon

SECTION 6 - ENVIRONMENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - CORROSIVE, WILL SUPPORT COMBUSTION. Do not wash to sanitary sewer or waterways. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures, open flames. CAUTION - material is corrosive. This material will support combustion. Keep this and other chemicals out of reach of children.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. Use corrosion-resistant, explosion-proof ventilation equipment.

PERSONAL PROTECTION:

RESPIRATORY PROTECTION (SPECIFY TYPE): None required; however, if misting occurs, NIOSH approved respirator capable of removing particulate from air must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

PROTECTIVE GLOVES: Neoprene or rubber gloves with cuffs.

EYE PROTECTION: Protective eyeglasses or chemical safety goggles. Refer to 29 CFR 1910.133 or European Standard EN166.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be worn to minimize skin contact.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

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MATERIAL SAFETY DATA SHEET PRODUCT NAME: BIO STOP Page 3 of 4 September 14, 2007 SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES VAPOR PRESSURE (MM Hg) VAPOR DENSITY (AIR = 1) Not applicable Not applicable SPECIFIC GRAVITY (WATER = 1) **EVAPORATION RATE (WATER = 1)** Not determined Not applicable SOLUBILITY IN WATER FREEZING POINT Appreciable, 45% Not applicable APPEARANCE AND ODOR pΗ Solid, lemon odor 6.5 - 8.5**BOILING POINT** PHYSICAL STATE Not applicable Solid VOLATILE ORGANIC COMPOUNDS (Total VOC's) VISCOSITY Solid None SECTION 10 - STABILITY AND REACTIVITY CONDITIONS TO AVOID: Extreme temperatures, open flames STABILITY UNSTABLE: STABLE: X

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

HAZARDOUS POLYMERIZATION MAY OCCUR: CONDITIONS TO AVOID: None

WILL NOT OCCUR: X

SECTION 11 - TOXICOLOGICAL INFORMATION

SECTION III -	IUNICULU	GIUAL IIV		
Hazardous Ingredients	CAS#	EINECS#	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
n-alkyl Dimethyl Benzyl Ammonium Chloride	68391-01-5	269-919-4	Not established	Not established
n-alkyl Dimethyl Ethylbenzyl Ammonium Chloride	68956-79-6	273-318-2	Not established	Not established

SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Do not wash to sanitary sewer or waterways. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations for corrosive materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not Regulated

DOT HAZARD CLASS / Pack Group: Not regulated

REFERENCE: Not Applicable

UN / NA IDENTIFICATION NUMBER: None

LABEL: None Required

HAZARD SYMBOLS: None

IATA HAZARD CLASS / Pack Group: Not regulated IMDG HAZARD CLASS: Not regulated RID/ADR Dangerous Goods Code: Not regulated UN TDG Class / Pack Group: Not regulated

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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SECTION 15 - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories

Immediate health

313 Reportable Ingredients:

None

CERCLA (Comprehensive Response Compensation and Liability Act)

None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There are no reportable chemicals present known to the state of California to cause cancer or reproductive toxicity.

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: Not controlled

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL and may or may not be listed in Section 2 of this document. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

EC Risk Phrases

R36/38 Irritating to eyes and skin.

SYMBOL(S) REQUIRED FOR LABEL

Irritating



EC Safety Phrases

S2 Keep out of the reach of children. S24/25 Avoid contact with skin and eyes.

SECTION 16 - OTHER INFORMATION

No specific notes.

HMIS HAZARD RATINGS

HEALTH FLAMMABILITY PHYSICAL HAZARD * = Chronic Health Hazard

2 = MODERATE

1 0 = INSIGNIFICANT 0 1 = SLIGHT 3 = HIGH 4 = EXTREME

PERSONAL PROTECTIVE EQUIPMENT

C Safety Glasses, Gloves, Apron

REVISION SUMMARY:

This MSDS has been revised in the following sections:

Section 2, address; Section 15, text

MSDS Prepared by: Comprehensive Data Base, Inc.

P.O. Box 395

Intercession City, FL 33848 USA

(863) 644 - 3298 www.compdatabase.com or www.msds.cc

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.