

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT

MSDS DATE: 10/02/06

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Biostat A
SYNONYMS:
PRODUCT CODES: A182

MANUFACTURER: Chemax Corporation
DIVISION:
ADDRESS: PO BOX 7453
Beaumont, TX 77726

EMERGENCY PHONE: 409/866-4232
CHEMTREC PHONE: 1-800-255-3924
OTHER CALLS: 409/866-4232
FAX PHONE: 409-866-4424

CHEMICAL NAME: mixture
CHEMICAL FAMILY:
CHEMICAL FORMULA:

PRODUCT USE:
PREPARED BY: Bruce Riffel

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

<u>Name</u>	<u>CAS NO.</u>	<u>PEL</u>	<u>TLV</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
1,8-P-MENTHADIENE	5989-27-5	NE	NE		
CARBON DIOXIDE	124-38-9	5000 PPM	5000 PPM		

SECTION 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Aerosol under pressure do not expose to high temperatures or store in direct sunlight. Pressure can cause splashing of chemical.

ROUTES OF ENTRY: Skin, Eyes, Ingestion, Inhalation

POTENTIAL HEALTH EFFECTS

EYES: Irritation likely

SKIN: Mild irritation likely, may cause localized defatting.

INGESTION: Gastric discomfort

INHALATION: DIZZINESS. PROLONGED EXPOSURE MAY LEAD TO UNCONSCIOUSNESS

ACUTE HEALTH HAZARDS:

CHRONIC HEALTH HAZARDS: None known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known

CARCINOGENICITY

OSHA: No ACGIH: No NTP: No IARC: No
OTHER:

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SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Flush with water for 15 minutes. Contact physician if irritation persist

SKIN: Wash with soap and water for 15 minutes. If irritation develops seek medical attention.

INGESTION: Give person 2 glasses water if conscious and alert. Contact physician, do not induce vomiting unless directed by medical authority.

INHALATION: Move to fresh air. If not breathing administer artificial respiration.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: 7.0
(% BY VOLUME) **LOWER:** 6.1

FLASH POINT:

F: 122

C:

METHOD USED: TCC

AUTOIGNITION TEMPERATURE: N/A

F:

C:

NFPA HAZARD CLASSIFICATION

HEALTH: 1 **FLAMMABILITY:** 2 **REACTIVITY:** 1
OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 1 **FLAMMABILITY:** 2 **REACTIVITY:** 1
PROTECTION: A

EXTINGUISHING MEDIA: ABC Dry chemical fire extinguisher

SPECIAL FIRE FIGHTING PROCEDURES: Wear SCBA in fire situations

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure exposure to high temperatures above 120F can cause bursting.

HAZARDOUS DECOMPOSITION PRODUCTS: oxides of carbon

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Use absorbent on spill sweep to clean. Dispose in accordance with local, state and federal laws. Small releases may be wiped up with wiping material.

SECTION 6 NOTES:

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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME. EXPOSURE TO TEMPERATURES ABOVE 120 F MAY CAUSE BURSTING.

OTHER PRECAUTIONS:

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION : Normal, forced ventilation should not be required

RESPIRATORY PROTECTION: If exposure levels are exceeded then organic vapor cartridge respirator or SCBA will be needed.

EYE PROTECTION: safety glasses

SKIN PROTECTION: Impervious gloves such as neoprene can be used

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WORK HYGIENIC PRACTICES:

EXPOSURE GUIDELINES:

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear orange

ODOR: Citrus

PHYSICAL STATE: liquid

pH AS SUPPLIED: N/A

pH (Other):

BOILING POINT:

F: 345

C:

MELTING POINT:

F: not tested

C:

FREEZING POINT:

F: not tested

C:

VAPOR PRESSURE (mmHg):

1 @

F: 77

C:

VAPOR DENSITY (AIR = 1):

>1 @

F: 77

C:

SPECIFIC GRAVITY (H₂O = 1):

.82 @

F: 77

C:

EVAPORATION RATE: <1

BASIS (Butyl Acetate =1):

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: will emulsify

PERCENT SOLIDS BY WEIGHT: not tested

PERCENT VOLATILE:

100 BY WT/ BY VOL @

F: ambient

C:

VOLATILE ORGANIC COMPOUNDS (VOC):

WITH WATER: na LBS/GAL
WITHOUT WATER: 820 g/l

MOLECULAR WEIGHT: mixture n/a

VISCOSITY:

@

F:

C:

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY:

CONDITIONS TO AVOID (STABILITY): temperatures above 120F

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: oxides of carbon

HAZARDOUS POLYMERIZATION: none

CONDITIONS TO AVOID (POLYMERIZATION):

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Contains oil like substance (terpene) do not let residue come in contact with waterways in the United States

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with local, State and Federal regulations

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RCRA HAZARD CLASS: Considered Non-hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION 13: DISPOSAL CONSIDERATIONS (con't)

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: ORM-D

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME: Call manufacturer

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

UNID# 1950

Class 2.1

No Packing Group

Aerosol/Flammable

AIR TRANSPORTATION

Call manufacturer

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All Chemicals are listed

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): none

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): none

311/312 HAZARD CATEGORIES: none

313 REPORTABLE INGREDIENTS: none

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION INFORMATION: Bruce Riffel