View NSN Online: https://aerobasegroup.kr/nsn/6550-01-416-4358

BIOCHEMICAL SCIENCES INC -- 23005500, 23111003,10% FORMALDEHYDE BUFFERED (SEE SUPPL) -- 6550-01-416-4358

Product ID:23005500, 23111003,10% FORMALDEHYDE BUFFERED (SEE SUPPL) MSDS Date:06/10/1998 FSC:6550 NIIN:01-416-4358 Status Code:A **MSDS Number: CLLJY** === Responsible Party === Company Name: BIOCHEMICAL SCIENCES INC Address:100 CLARENDON DRIVE City:SWEDESBORO Stat e:NJ ZIP:08085 Country:US Info Phone Num:800-524-0294 Emergency Phone Num:800-524-0294 Preparer's Name:NOT PROVIDED Chemtrec Ind/Phone:(800)424-9300 CAGE:0B0Y1 === Contractor Identification === Company Name: BIOCHEMICAL SCIENCES INC Address:200 COMMODORE DRIVE Box:City:SWEDESBORO State:NJ ZIP:08085 Country:US Phone:800-524-0294 CAGE:0B0Y1

Ingred Name:FORMALDEHYDE CAS:50-00-0 RTECS #:LP8925000 = Wt:3.8 Other REC Limits:NOT PROV IDED OSHA PEL:SEE 1910.1048 ACGIH STEL:C0.37 MG/M3;C0.3 PPM EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:SODIUM PHOSPHATE, DIBASIC CAS:7558-79-4 RTECS #:WC4500000 &It; Wt:1. Other REC Limits:NONE LISTED OSHA PEL:NONE LISTED ACGIH TLV:NONE LISTED EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:SODIUM PHOSPHATE, MONOBASIC CAS:7558-80-7 RTECS #:WA1900000 &It; Wt:1. Other REC Limits:NONE LISTED OSHA PEL:NONE LISTED ACGIH TLV:NONE LISTED

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC01100 00 Fraction by Wt: BALANCE Other REC Limits:NONE LISTED OSHA PEL:NONE LISTED ACGIH TLV:NONE LISTED

LD50 LC50 Mixture:NOT PROVIDED Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and Chronic:HARMFUL IF SWALLOWED, INHALED, ABSORBED THROUGH SKIN. EYE: MAY CAUSE SEVERE IRRITATION, CORNEAL INJURY. SKIN: MAY CAUSE SEVERE IRRITATION, SKIN SENSITIZATION. IN SEVERE CASES MAY PRODUCE BLISTERIN G, S CALING AND FORMATION OF

FISSURES. INGESTION: MAY CAUSE IRRITATION OF DIGESTIVE TRACT, VIOLENT VOMITING AND DIARRHEA LEADING TO COLLAPSE. MAY CAUSE SYSTEMIC TOXICITY INCLUDING CNS DEPRESSION, CONVULSIO NS, COMA, POSSIBLE DEATH DUE TO RESPIRATORY FAILURE. INHALATION: MAY CAUSE IRRITATION WITH PAIN, COUGHING, WHEEZING, SHORTNESS OF BREATH, SENSITIZATION. CHRONIC: MAY CAUSE DERMATITIS, LUNG CANCER, SKI N DISCOLORATION, NAIL DECAY.

Explanation of Carcinogenicity:FORMA

LDEHYDE

Effects of Overexposure:EYE: MAY CAUSE SEVERE IRRITATION. SKIN: MAY CAUSE SEVERE IRRITATION, SKIN SENSITIZATION. IN SEVERE CASES MAY PRODUCE BLISTERING, SCALING AND FORMATION OF FISSURES. INGESTION: MAY CAUSE IRRITATION OF D IGESTIVE TRACT, VIOLENT VOMITING AND DIARRHEA LEADING TO COLLAPSE. MAY CAUSE SYSTEMIC TOXICITY INCLUDING CNS DEPRESSION, CONVULSIONS, COMA, POSSIBLE DEATH. INHALATION: MAY CAUSE IRRITATION WITH PAIN, COUGHING, WHEEZING, SHORTNESS OF BREAT

H, SENSITIZATION.

Medical Cond Aggravated by Exposure:NOT PROVIDED

First Aid:EYE: FLUSH WITH WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING UPPER AND LOWER LIDS. GET MEDICAL AID. DO NOT ALLOW VICTIM TO RUB/KEEP EYES CLOSED. SKIN: IMMEDIATELY FLUSH SKIN WITH PLENTY OF SOAP AND WATER. GET MEDICAL AID IF IRRITATION DEVELOPS OR PERSISTS. INGESTION: IF VICTIM IS CONSCIOUS AND ALLERT, GIVE 2-4 CUPFULS OF M

ILK/ WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GE T MEDICAL AID IMMEDIATELY. INHALATION: GET MEDICAL AID IMMEDIATELY. REMOVE FROM EXPOSURE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.

Lower Limits:N/AV Upper Limits:N/AV Extinguishing Media:SMALL FIRE: USE WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE OR CHEMICAL FOAM.

Fire

Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS IN PRESSURE DEMAND. MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR. WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE. DIKE AND COLLECT WATER USED TO FI GHT FIRES. USE WATER SPAY TO KEEP FIRE-EXPOSED CONTAINERS COOL.

Unusual Fire/Explosion Hazard:NOT PROVIDED

Spill Release Procedures: ABSORB WITH INERT MATERIAL (DRY SAND OR EARTH), THEN PLAC

E INTO A CHEMICAL WASTE CONTAINER. PROVIDE VENTILATION. UREA BASED MATERIALS ARE AVAILABLE WHICH CAN BE USED TO BIND THE FORMALDEHYDE FORMING A POLYMER. Neutralizing Agent:UREA BASED MATERIALS

Handling and Storage Precautions:STORE IN A TIGHTLY CLOSED CONTAINER. STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE EXPOSURE LIMITS.

Other Precautions: WASH THOROUGHLY AFTER HANDLING. WASH HANDS BEFORE

EATING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. USE ONLY IN A WELL VENTILATED AREA. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. KEEP CONTA INER TIGHTLY CLOSED. DO NOT INGEST OR INHALE.

Respiratory Protection:FOLLOW OSHA RESPIRATOR REGULATIONS FOUND IN 29CFR1910.134 OR EUROPEAN STANDARD EN149. ALWAYS USE A NIOSH OR EUROPEAN STANDARD EN 149 APPROVED RESPIRATOR WHEN NECESSARY. Ventilation:USE ADEQ UATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP AIRBORNE CONCENTRATIONS BELOW PERMISSIBLE EXPOSURE LIMITS. Protective Gloves:APPROPRIATE PROTECTIVE GLOVES Eye Protection:PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES Other Protective Equipment:WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN EXPOSURE. Work Hygienic Practices:NOT PROVIDED Supplemental Safety and Health CONTD FROM PROD ID:230-(11120,23798,23799,26783,27274,28865,28866,29973,31092,32059

32060,32061,320

62,35159,36223,36225,36226,37238,37239,38528,45111,4 5112,45149,46785,46986, 46988,47002),23111-(004, 005,008,114,123),232-(45684,45685,45864,45865,53998,69627,69628,862 00,86603),23305510,2331-(4264,4499,6153,6154,6155...)

HCC:N1 NRC/State Lic Num:NOT RELEVANT Boiling Pt:=102.C, 215.6F Melt/Freeze Pt:M.P/F.P Text:NOT AVAILABLE Decomp Temp:Decomp Text:NOT AVAILABLE Vapor Pres:79MMHG Vapor Density:>1 Spec Gravity:1 .0 pH:NOT AVAILABLE Viscosity:NOT AVAILABLE Evaporation Rate & amp; Reference: SIMILAR TO WATER Solubility in Water:COMPLETE Appearance and Odor: COLORLESS LIQUID; CHARACTERISTIC ODOR Percent Volatiles by Volume:NOT PROVIDED Corrosion Rate:NOT PROVIDED

Stability Indicator/Materials to Avoid:YES

HYDROGEN PEROXIDE, MAGNESIUM CARBONATE HYDROXIDE, NITROGEN DIOXIDE, NITROMETHANE, PEROXYFORMIC ACID, PERSHLORIC ACID+ANILINE, PERFORM IC

ACID, PHENOL, POTASSIUM PERMANGANATE. REACTS WITH HYDROGEN CHLORIDE IN HUMID AIR TO PRO

Stability Condition to Avoid: INCOMPATIBLE MATERIALS, IGNITION SOURCES, ACIDS, REDUCING AGENTS, OXIDIZERS, BASES.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF CARBON

Conditions to Avoid Polymerization: POLYMERIZATION AT LOW TEMPERATURES MAY OCCUR.

Toxicological Information:CAS# 50-00-0: INH

ALATION, MOUSE: LC50 = 400 MG/M3/2H; INHALATION, RAT: LC50 = 203 MG/M3; ORAL, MOUSE: LD50 = 42 MG/KG; ORAL, RAT: LD50 = 100 MG/KG;SKIN, RABBIT: LD50 = 270 MG/KG. CAS# 7558-79-4: ORAL RAT: LD50 = 17 GM/KG. CAS# 7558-80-7: ORAL RAT: LD50 = 8290 MG/KG. CAS# 7732-18-5: ORAL RAT: LD50 > 90 ML/KG.
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Ecological:BLUEGILL LC50=100 UG/L/96H LAKE TROUT LC50=100 UL/L/96H ATLANTIC SALMON LC50=173 UL/L/96H CATFISH (FRES H WATER) TLM=32
PPM/24H FLOUNDER (SALT WATER) TLM=100-330 PPM/48H FATHEAD MINNOW LC50=10-100 UL/L /96H RAINBOW TROUT LC50=168 MG/L/48H ZEBRAFISH LC50=41 MG/L/96H WATER FLEA LC50=52 MG/L/24H.
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Waste Disposal Methods:DISPOSE OF IN A MANNER CONSISTENT WITH FEDERAL, STATE AND LOCAL REGULATIONS
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Transport Information:NO INFORMATION AVAILABLE.
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SARA Title III Information:SARA SECTION 302 9RQ): CAS# 50-00-0: FINAL RQ = 100 POUNDS (45.4 KG). CAS# 7558-79-4: RQ = 5000 LBS. SECTION 302 (TPQ): CAS# 50-00-0: TPQ = 500 LBS. SARA CODES: ACUTE, CHRONIC. SECTION 313: THIS MATER IAL CONTAINS FORMALDEHYDE (CAS# 50-00-0, 3.8 %), WHICH IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 SARA TITLE III AND 40 CFR PART 373. CLEAN AIR ACT: CAS # 50-00-0 IS LI
STED AS A HAZARDOU S AIR POLLUTANT (HAP). THIS MATERIAL DOES NOT CONTAIN ANY CLASS 1 OR CLASS 2 OZONE DEPLETORS. CLEAN WATER ACT: CAS # 50-00-0 AND CAS # 7558-79-4 ARE LISTED AS HAZARDOUS SUBSTANCES UNDER THE CWA.
Federal Regulatory Information:OSHA: CAS# 50-00-0 IS CONSIDERED HIGHLY

HAZARDOUS BY OSHA. TSCA (TOXIC SUBSTANCES CONTROL ACT): ALL INGREDIENTS ARE LISTED.

State Regulatory Information: FORMALDEHDYE CAN BE FOUND ON THE FOLLOWING STATE RIGHT TO KNOW LISTS: CALIFOR

NIA, NEW JERSEY, FLORIDA,

PENNSYLVANIA, MINNESOTA, MASSACHUSETTS. SODIUM PHOSPHATE, DIBASIC CAN BE FOUND ON THE FOLLOWING S TATE RIGHT TO KNOW LISTS: CALIFORNIA, NEW JERSEY, PENNSYLVANIA, MASSACHUSETTS. WARNING! THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. CALIFORNIA NO SIGNIFICANT RIS K LEVEL: CAS# 50-00-0: NO SIGNIFICANT RISK LEVEL = 40 UG/DAY.

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ed with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their

particular situation.