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MATERIAL SAFETY DATA SHEET REV: 03/29/96

CHEMTECH PRODUCTS, INC.

1633 DES PERES ROAD

SUITE 210

ST. LOUIS, MO 63131 PHONE: (314) 965-7100 HEALTH = 2 REACTIVITY = 1 FIRE = 0 EQUIPMENT =

FOR EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE, CALL 1-800-424-9300

HAZARD RATINGS:

0 = LEAST 1 = SLIGHT 2 = MODERATE 3 = HIGH

DAY OR NIGHT	4 = EXTREME	
SECTION I management PRODU	CT DESCRIPTION ====================================	
PRODUCT NAME: SODIUM BIFLUORIDE		
SYNONYMS: SODIUM ACID FLUORIDE; SODIUM HYDROGENDIFLUORIDE		
CHEMICAL FAMILY: INORGANIC ACID SALT		
SECTION II =================================		
INGREDIENT	WT % CAS # TLV	
SODIUM HYDROGENDIFLUORIDE	100 1333-83-1 2.5 MG(F)/M3	
SECTION III ========= PHYS	CCAL PROPERTIES semenance consequences	
BOILING RANGE:	DECOMPOSES	
SPECIFIC GRAVITY (WATER=1):	2,08	
VAPOR PRESSURE AT 20C (MM OF HG):	< 0.01	
VAPOR DENSITY (AIR=1):	NOT APPLICABLE	
SOLUBILITY IN WATER:	MODERATELY SOLUBLE	
EVAPORATION RATE:	NOT APPLICABLE	
% VOLATILES:	0	
APPEARANCE: WHITE CRYSTALLINE	SOLID; IRRITATING ODOR	
SECTION IV x===================================		
LOWER FLANMABILITY LIMITS (% IN AIR): NOT FLANMABLE		
FLASH POINT (AND METHOD): NOT APPLICABLE		

RECOMMENDED EXTINGUISHING MEDIA: DOES NOT BURN OR SUPPORT COMBUSTION. USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING MATERIALS.

FLANMABILITY CLASSIFICATION: NOT FLANMABLE

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SPECIAL FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD BE EQUIPPED WITH APPROPRIATE PROTECTIVE APPAREL AND USE NIOSH APPROVED BREATHING MASKS.

UNUSUAL FIRE/EXPLOSION HAZARDS: MATERIAL DECOMPOSES AT TEMPERATURES IN EXCESS OF 100 C TO SODIUM FLUORIDE AND HYDROGEN FLUORIDE. VAPORS OR FUMES ARE POISONOUS AND CORROSIVE.

THRESHOLD LIMIT VALUE: TWA= 2.5 MG (F)/M3 OSEA PEL: TWA= 2.5 MG (F)/M3

EFFECTS OF OVEREXPOSURE:

INHALATION OF DUST OR MIST MAY CAUSE SEVERE MUCOUS MEMBRANE IRRITATION, BURNS AND, WITH PROLONGED OR REPEATED EXPOSURE, MAY CAUSE FLUOROSIS.

EYE AND SKIN EXPOSURE CAUSES IRRITATION AND BURNS. PRODUCT MAY BE ABSORBED THROUGH THE SKIN AND PRODUCE SIGNS OF FLUOROSIS SUCH AS WEIGHT LOSS, BRITTLE-NESS OF BONES, ANEMIA, WEAKNESS AND STIFFNESS OF JOINTS. INGESTION IS HARMFUL DUE TO ACID BURNS AND FLUORIDE POISONING. INTERNAL BLEEDING MAY DEVELOP.

EFFECTS MAY NOT BE IMMEDIATELY APPARENT, ESPECIALLY WITH DILUTE SOLUTIONS.

FIRST AID PROCEDURES SHOULD BE FOLLOWED EVEN IN CASES OF SUSPECTED CONTACT.

EMERGENCY FIRST AID PROCEDURES:

MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH EXPOSED AREAS

WITH SOAP AND WATER. FOR IRRITATION OR BURNS, GET MEDICAL

ATTENTION.

INHALATION: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE

ARTIFICIAL RESPIRATION, GET MEDICAL ATTENTION.

INGESTION: IF VICTIM IS CONSCIOUS, GIVE SOLUBLE CALCIUM SUCH AS

CALCIUM GLUCONATE. DO NOT INDUCE VOMITING. GET MEDICAL

ATTENTION IMMEDIATELY.

LISTED IN THE FOLLOWING:

-INTERNATIONAL AGENCY FOR RESEARCH ON CANCER MONOGRAPHS (IARC)	NO
-NATIONAL TOXICOLOGY PROGRAM ANNUAL REPORT ON CARCINOGENS (NTP)	NO
-OSHA SUBPART Z	NO
-MASSACHUSETTS RIGHT TO KNOW LAWS	YES
-NEW JERSEY RIGHT TO KNOW LAWS	YES
-COMPREHENSIVE ENV. RESPONSE, COMPENSATION & LIABILITY ACT (CERCLA)	YES
-RESOURCE CONSERVATION & RECOVERY ACT (RCRA)	NO
-SARA 302 EXTREMELY HAZARDOUS SUBSTANCES	NO
WARNING: THIS PRODUCT CONTAINS DETECTABLE AMOUNTS OF A CHEMICAL	
TO THE STATE OF CALIFORNIA TO CAUSE CANCER/BIRTH DEFECTS OR OTHER	
REPRODUCTIVE HARM.	

STABILITY: STABLE

CONDITIONS TO AVOID: AVOID HEATING TO DECOMPOSITION AND CONTACT WITH INCOMPATIBLE MATERIALS.

INCOMPATIBILITY WITH OTHER MATERIALS: GLASS, CONCRETE, LEATHER, NATURAL RUBBER METALS, ORGANICS, ALKALIS, STRONG ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS: WHEN HEATED TO DECOMPOSITION, HYDROGEN FLUORIDE (HF) MAY BE RELEASED.

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HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

PROCEDURES IF MATERIAL IS SPILLED OR RELEASED: FOR DRY SPILLS--SWEEP UP, WASH AREA WITH WATER AND NEUTRALIZE WASH-WATER WITH SODA ASH, SLAKED LIME OR CRUSHED LIMESTONE. FOR LIQUID SPILLS--NEUTRALIZE AS DESCRIBED ABOVE.

WASTE DISPOSAL PROCEDURES: FER LOCAL, STATE AND FEDERAL POLLUTION REGULATIONS.

RESPIRATORY PROTECTION:

A NIOSH-APPROVED RESPIRATOR FOR DUSTS OR MISTS

LOCAL EXHAUST:

RECOMMENDED

PROTECTIVE GLOVES:

IMPERVIOUS

EYE PROTECTION:

CHEMICAL SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT: APPROPRIATE PROTECTIVE APPAREL DESIGNED TO PREVENT CONTACT (LONG SLEEVE SHIRT, PANTS, RUBBER APRON); EYE-WASH; SAFETY SHOWER

SECTION IX DECERTEDES ADDITIONAL PRECAUTIONS ETTEREDEGETERETE

USE ONLY WITH ADEQUATE VENTILATION.

AVOID BREATHING DUSTS OR MISTS.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

DO NOT SWALLOW.

WASH THOROUGHLY AFTER HANDLING.

KEEP BAG OR CONTAINER CLOSED WHEN NOT IN USE.

STORE IN COOL, DRY AREA.

AVOID CONTACT WITH GLASS, METALS, CONCRETE AND OTHER INCOMPATIBLE MATERIALS.

DOT HAZARD CLASS: 8

PACKAGING GROUP: II

REPORTABLE QUANTITY: 100 LB

UN/NA IDENTIFICATION NUMBER: UN 2439

DOT LABELS REQUIRED: CORROSIVE DOT PLACARDS REQUIRED: CORROSIVE

THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND BELSIVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, CHEMTECH PRODUCTS, INC. MAKES NO REPRESENTATION AS TO THE COMPLETENESS AND ACCURACY THEREOF. USERS MUST MAKE THEIR OWN DETERMINATION AS TO THE SUITABILITY OF THE PRODUCT FOR THEIR PURPOSES PRIOR TO USE.

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