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FISHER SCIENTIFIC CO. CHEMICAL MFG DIV -- A665-500, AMMONIUM FLUORIDE 6810-00-974-3621

Product ID:A665-500, AMMONIUM FLUORIDE

MSDS Date:12/12/1997

FSC:6810

NIIN:00-974-3621 Status Code:A

MSDS Number: CKNQK === Responsible Party ===

Company Name: FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address: 1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410-2802 Country:US

Inf

o Phone Num:201-796-7100

Emergency Phone Num:201-796-7100 Chemtrec Ind/Phone:(800)424-9300

CAGE:1B464

=== Contractor Identification ===

Company Name: FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

======= Composition/Information on Ingredients ========

Ingred Name: AMMONIUM FLUORIDE

CAS:12125-01-8 RTECS #:BQ6300000

= Wt:100.

EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

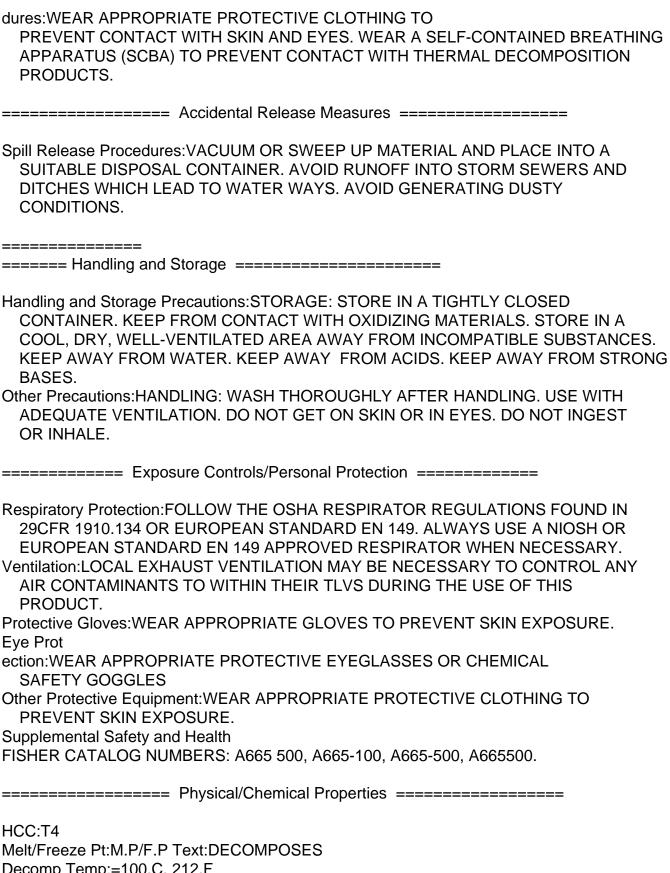
- = Hazards Identification ==========
- Health Hazards Acute and Chronic:TARGET ORGANS: SKELETAL STRUCTURES.
 EYE: CONTACT WITH EYES MAY CAUSE SEVERE IRRITATION, AND POSSIBLE
 EYE BURNS. SKIN: CAUSES SKIN BURNS. MAY CAUSE DEEP, PENETRATING
 ULCERS OF THE SKIN. MAY CAUSE SEVER E IRRITATION AND POSSIBLE
 BURNS. PENETRATION MAY CONTINUE FOR SEVERAL DAYS. INGESTION: MAY
 CAUSE VASCULAR COLLAPSE AND DAMAGE. CAUSES SEVERE DIGESTIVE TRACT
 BURNS WITH ABDOMINAL PAIN, VOMITING
- , AND PO SSIBLE DEATH. MAY CAUSE HEMORRHAGING OF THE DIGESTIVE TRACT. INHALATION: CAUSES DELAYED LUNG INJURY. MAY CAUSE SEVERE RESPIRATORY TRAC IRRITATION. CHRONIC INHALATION AND INGESTION MAY CAUSE FLUOROSIS WITH SKELETAL ABNORMALITIES.
- Explanation of Carcinogenicity:AMMONIUM FLUORIDE. ACGIH: A4-NOT CLASSIFIED AS A HUMAN CARCINOGEN (AS FLU). IARC: GROUP 3 CARCINOGEN (LISTED AS FLUORIDES, INORGANIC).
- Effects of Overexposure:EYE: CONTACT WITH EYES MAY CAUSE SEVERE IRR
- ITATION, AND POSSIBLE EYE BURNS. SKIN: CAUSES SKIN BURNS. DEEP, PENETRATING ULCERS OF THE SKIN. INGESTION: CAUSES SEVERE DIGESTIVE TRACT BURNS WITH ABDOMINAL PAIN, VOMITING, AND POSSIBLE DEATH. MAYCAUSE HEMORRHAGING OF THE DIGESTIVE TRACT. MAY CAUSE EXCESSIVE SALIVATION GASTROENTERITIS, TREMORS, CONVULSIONS, MUSCULAR WEAKNESS, AND POSSIBLE DEATH. INHALATI ON: MAY CAUSE SEVERE RESPIRATORY TRACT IRRITATION. MAY CAUSE COUGHING, CHILLS, FEVER, TIGHTNESS IN THE CHEST, AND CYANOSIS.

- First Aid:EYES-IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINS, LIFTING THE UPPER & LOWER LIDS. GET MEDICAL AID IMMEDIATELY. SKIN-GET MEDICAL AID IMMEDIATELY. IMMEDIATELY FLUSH SKIN WITH SOAP & WATER FOR 15 MINS WHILE REMOVING SOILED CLOTHES/SHOES. DISCARD CONTAMINATED CLOTHING IN A MANNER TO LIMITS FURTHER EXPOSURE. INGESTION-DO NOT INDUCE VOMITING. IF CONSCIOUS & ALLERT, GIVE 2-4 CUPFUL
- S OF MILK/WATER. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSONS. GET MEDICAL AID IMMEDIATELY. INHALATION-GET MEDICAL AID. REMOVE FROM EXPOSURE TO FRESH AIR IMMEDIATELY. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRAT ION. IF BREATHING IS HARD, GIVE OXYGEN.

============= Fire Fighting Measures ========================

Extinguishing Media:USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

USE EXTINGUISHING MEDIA MOST APPROPRIATE FOR THE SURROUNDING FIRE.
Fire Fighting Proce



HCC:T4
Melt/Freeze Pt:M.P/F.P Text:DECOMPOSES
Decomp Temp:=100.C, 212.F
Vapor Pres:NEGLIGIBLE
Vapor Density:1.3
Spec Gravity:1.009
pH:ACIDIC
Evaporation Rate & Company Compan

Appearance and Odor:SOLID, WHITE, ODORLESS.			
========= Stability and Reactivity Data ==========			
Stability Indicator/Materials to Avoid:YES REACTS WITH ACIDS. REACTS WITH BASES. CONTACTS WITH WATER MAY LEAD TO CORROSION OF METAL AND POSSIBLY THE FORMATION OF HIGHLY EXPLOSIVE HYDROGEN GAS. CORRODES GLASS. INCOMPATIBLE WITH QUININE SALTS, & SOLUBLE CALCIUM SALTS. Stability Condition to Avoid:INCOMPATIBLE MATERIALS, MOIST URE, CONTACT			
WITH WATER, ACIDS, EXCESS HEAT, STRONG OXIDANTS, BASES. Hazardous Decomposition Products:OXIDES OF NITROGEN, HYDROGEN FLUORIDE, AMMONIA AND/OR DERIVATIVES.			
============ Toxicological Information ============			
Toxicological Information:LD50/LC50: NOT AVAILABLE. EPIDEMOLOGY: NO DATA AVAILABLE. TETRATOGENICITY: NO DATA AVAILABLE. REPRODUCTIVE EFFECTS: NO DATA AVAILABLE. NEUROTOXICITY: NO DATA AVAILABLE. MUTAGENICITY: NO DATA AVAILABLE . OTHER STUDIES: NO DATA AVAILABLE.			
=========== Ecological Information =============			
Ecological:ECOTOXICITY: NOT AVAILABLE. ENVIRONMENTAL FATE: NOT AVAILABLE. PHYSICAL/CHEMICAL: NOT AVAILABLE. OTHER: NOT AVAILABLE.			
========= Disposal Considerations ============			
Waste Disposal Methods:DISPOSE OF IN A MANNER CONSISTENT WITH FEDERAL, STATE, AND LOCAL REGULATIONS.			
========= MSDS Transport Information ===========			
Transport Information:U S DOT: SHIPPING NAME: AMMONIUM FLUORIDE. HAZARD CLASS: 6.1. UN NUMBER: UN2505. PACKING GROUP: III. IMO: NO INFORMATION AVAILABLE. IATA: NO INFORMATION AVAILABLE. RID/ADR: NO INFORMATION AVAIALABLE. C ANADIAN TDG: SHIPPING NAME: AMMONIUM FLUORIDE. HAZARD CLASS: 6.1(9.2). UN NUMBER: UN2505.			
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SARA Title III Information:SECTION 302(RQ): CAS# 12125-01-8: FINAL RQ=100 LBS (45.4 KG). SECTION 302(TPQ): NONE OF THE			

Reference:NEGLIGIBLE

CHEMICALS IN

THIS PRODUCT HAVE A TPQ. SARA CODES: CAS# 12125-01-8: ACUTE, CHRONIC. SECTION 313: NO CHEMICALS ARE REPORTABLE UNDER SECTION 313.

Federal Regulatory Information:CLEAN AIR ACT: THIS MATERIAL DOES NOT CONTAIN ANY HAZARDOUS AIR POLLUTANTS. THIS MATERIAL DOES NOT CONTAIN ANY CLASS 1 OZONE DEPLETORS. THIS MATERIAL DOES NOT CONTAIN ANY CLASS 2 OZONE DEPLETORS. TSCA: CAS#12125-01-8 IS LISTED ON THE TSCA INVENTORY. CLEAN WATER ACT: CAS# 12125-01-8 IS LISTED AS A

HAZARDOUS SUBSTANCE UNDER THE CWA. OSHA: NONE OF THE CHEMICALS IN THIS PRODUCT ARE CONSIDERED HIGHLY H AZARDOUS BY OSHA.

State Regulatory Information: AMMONIUM FLUORIDE CAN BE FOUND ON THE FOLLOWING STATE RIGHT TO KNOW LISTS: CALIFORNIA, NEW JERSEY, FLORIDA, PENNSYLVANIA, MINNESOTA, (LISTED AS FLUORIDES), MINNESOTA, (LISTED AS FLUORIDES, INORGANIC), MASSACHUSETTS. CALIFORNIA NO SIGNIFICANT RISK LEVEL: NONE OF THE CHEMICALS OIN THIS PRODUCT ARE LISTED.

=======	Other Information	

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