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FISHER SCIENTIFIC -- C-575, COPPER -- 6810-00-974-3626

========= Product Identification ===========

Product ID:C-575, COPPER MSDS Date:06/27/1989

FSC:6810

NIIN:00-974-3626

MSDS Number: BPKPC === Responsible Party ===

Company Name: FISHER SCIENTIFIC

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ ZIP:07410 Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:201-796-7100;800-424-9300(CHEMTREC)

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: COPPER

CAS:7440-50-8

RTECS #:GL5325000 Fraction by Wt: 100%

OSHA PEL:0.1MG/M3FUME, 1 DUST ACGIH TLV:0.2MG/M3FUME, 1 DUST

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: SUPP DATA: DEGENERATION &/OR DETACHMENT OF RETI

NA & ATROPHY
OF GLOBE. CHRONIC:RPTD/PRLNG EXPOS TO IRRITANT MAY (ING 3)
RTECS #:9999992Z

Ingred Name:ING 02:CAUSE CONJ. INGEST(ACUTE): 120 UG/KG INGESTED BY HUMAN CAUSED GI DISORDER W/NAUS & VOMIT. (CHRONIC): PRLNG(ING 4) RTECS #:9999992Z

Ingred Name:ING 3:INGEST THRU DIET IS NOT KNOWN TO CAUSE TOX EFTS EXCEPT IN PEOPLE W/RECESSIVE GENE DISORDER TERMED WILSON'S (ING 5) RTECS #:9999999ZZ

Ingred Name:ING 4:DISEASE WHICH CAUSE AN ABNORMALLY HIGH ABSORP, RETENTION & STOR OF COPP ER BY BODY. DISEASE MAY CAUSE DYSFUNC(ING6) RTECS #:9999999ZZ

Ingred Name:ING 5:& STRUCTURAL DAM TO LIVER/CNS, KIDNEY, BONES & EYES.
DISEASE IS USUALLY PROGRESSIVE & MAY BE FATAL IF LEFT (ING 7)
RTECS #:9999999ZZ

Ingred Name:ING 6:UNTREATED. FOR MORE EXACTING INFO CONCERNING HEALTH HAZARDS, CONTACT NEHC.

RTECS #:9999992Z

Ingred Name:FIRST AID PROC:OCCAS LIFT LIDS, UNTIL NO EVIDENCE OF CHEM REMAINS FOR @ LST 15 MIN. GET MED ATTN IMMED. INGEST: (ING 9) RTECS #:9999999ZZ

Ingred Na

me:ING 8: VOMIT/DRINK ANYTHING BY MOUTH. GIVE ACTIVATED CHARCOAL. GIVE O\*2 IF RESP IS DEPRESSED. MAINTAIN AIRWAY (ING 10) RTECS #:9999999ZZ

Ingred Name:ING 9:& BLOOD PRESS. GET MED ATTN. LAVAGE/O\*2 MUST BE ADMIN BY QUALIFIED MED PERS. COPPER POISONING: GIVE (ING 11) RTECS #:9999992Z

Ingred Name:ING 10: CALCIUM DISODIUM EDETATE 15-25 MG/KG (0.08-0.125 ML OF 20% SOLN PER KILOGRAM BODY WT). IN 250-500 ML (ING 12) RTECS #:9999992Z

Ingred Name: ING 11:OF 5% DEXTROSE INTRAVENOUSLY OVER

A 1-2 HR PERIOD
TWICE DAILY. MAX DOSE SHOULD NOT EXCEED 50 MG/KG/DAY. (ING 13)
RTECS #:9999999ZZ

Ingred Name:ING 12:DRUG SHOULD BE GIVEN IN 5 DAY COURSES W/REST PERIOD OF @ LST 2 DAYS BETWEEN COURSES. AFTER FIRST (ING 14) RTECS #:9999999ZZ

Ingred Name:ING 13:COURSE, SUBSEQUENT COURSES SHOULD NOT EXCEED 50 MG/KG/DAY. DAILY URINALYSIS SHOULD NOT BE DONE DURING (ING 15) RTECS #:9999999ZZ

Ingred Name:ING 14:TRTMT PERIOD. DOSAGE SHOULD BE REDUCED IF ANY UNUSUAL URINE FINDINGS APPE AR. INTRAVENOUS ADMIN IS (ING 16) RTECS #:9999992Z

Ingred Name:ING 15:CONTRAINDICATED IN PRESENCE OF ELEVATED CEREBROSPINAL FLUID PRESS. PENICILLAMINE IS ALSO EFTIVE IN COPPER(ING 17)
RTECS #:9999992Z

Ingred Name:ING 16:POISONING. GIVE UP TO 100 MG/KG/DAY MAX (MAX 1 G/DAY) DIVIDED INTO 4 DOSES FOR NO LONGER THAN 2 WK. IF (ING 18) RTECS #:9999992Z

Ingred Name:ING 17:LONGER ADMIN PERIOD IS WARRANTED, DOSAGE SHOULD NOT EXCEED 40 MG/KG/DAY. GIVE DRUG ORALLY, HALF AN HR (ING 19)

RTECS #:9999999ZZ

Ingred Name:ING 18:BEFORE MEALS. ANTIDOTE SHOULD BE ADMINISTERED BY QUALIFIED MEDICAL PERSONNEL. RTECS #:9999999ZZ

Ingred Name:SPILL PROC: AREA! KEEP UNNEC PEOPLE AWAY. ISOLATE HAZ AREA & DENY ENTRY. RESIDUE SHOULD BE CLEANED UP USING (ING 21) RTECS #:9999999ZZ

Ingred Name:ING 20:HIGH-EFFICIENCY PARTICULATE FILTER VACUUM. RTECS #:9999999ZZ

Ingred Name:WASTE DISP METH: FOR ASSISTANCE, CONTACT DISTRICT DIRECTOR OF THE ENVIRONMENTAL PROTECTION AGENCY.
RTECS #:9999

Ingred Name: RESP PROT: SELECTIONS, CONTACT NEHC. RTECS #:9999999ZZ LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: COPPER IS AN EYE & MUC MEMB IRRITANT. POISON MAY AFFECT LIVER & KIDNEYS. INHAL:(ACUTE): POWDERED DUST MAY CAUSE IRRIT OF UPPER RESP TRACT & ULCERATION & P **ERFORATION OF NASAL** SEPTUM. COPPER FUMES MAY C AUSE METAL FUME FEVER. CHRONIC: PRLNG INDUST EXPOS MAY CAUSE A GREEN DISCOLORATION SKIN, HAIR, TEETH. (EFTS OF OVEREXP) Explanation of Carcinogenicity:NOT RELEVANT Effects of Overexposure: HLTH HAZ: WELDERS EXPOS TO COPPER FUME EXPER ATROPHIC RHINITIS, METALLIC TASTE, RUNNY NOSE, & MUCOSAL IRRIT OF MOUTH & EYES. SKIN: (ACUTE):MAY BE IRRITATING & CAUSE KERATINIZATION. ALLERGIC DERM HAS BE EN RPTD. CHRONIC: RPTD/PRLNG **CONT MA** Y CAUSE IRRIT & DISCOLORATION OF SKIN. EYE: (ACUTE): DUST CAN CAUSE IRRIT(SUPP DATA) Medical Cond Aggravated by Exposure: PERSONS W/PRE-EXISTING RESPIRATORY, LIVER, KIDNEY, SKIN & BLOOD DISORDERS/WILSON'S DISEASE MAY BE @ INCREASED RISK FROM EXPOSURE. First Aid:INHAL: REMOVE FROM EXPOS TO FRESH AIR IMMED. IF BRTHG HAS STOPPED, PERFORM ARTF RESP. KEEP WARM & @ REST. TREAT SYMPTOMATICALLY & SUPPORTIVELY. GET MED ATTN IMMED. SKIN: REMOVE CONTAMD CLTHG & SHOES I MMED. WASH AFFECTED AREA W/SOAP/MILD DETERGENT & LG AMTS OF H\*20 UNTIL NO EVIDENCE OF CHEM REMAINS (APPROX 15-20 MIN). GET MED ATTN IMMED. EYE: WASH IMMED W/LG AMTS OF H\*20/NORM SALINE, (ING 8)

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

Flash Point:FLAMMABLE(DUST)

Extinguishing Media: USE DRY SAND/DOLOMITE, GRAPHITE, SODIUM CHLORIDE, SODA ASH/APPROP METAL-EXTING POWDER. DO NOT APPLY H\*20 TO (SUPP

DATA)

Fire Fighting Procedures:NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP. MOVE CONTR FROM FIRE AREA IF POSS. COOL CONTR EXPOS TO FLAME W/H\*2O FROM SIDE UNTIL FIRE IS OUT. (SUPP DATA)

Unusual Fire/Explosion Hazard: NEGLIGIBLE FIRE HAZARD IN METALLIC FORM; HOWEVER, DUST, POWDER, OR FUMES ARE FLAMMABLE OR EXPLOSIVE WHEN EXPOSED TO HEAT OR FLAMES.

======== Accidental Release Measures ============

Spill Release Procedures: SHUT OFF IGNIT SOURCES. DO NOT TOUCH SPIL I FD

MATL. FOR SM SPILLS, W/CLEAN SHOVEL, PLACE MATL INTO CLEAN, DRY CONTR & COVER; MOVE CONTR FROM SPILL AREA. FOR LGR SPILLS, WET DOWN W/H\*2O & DIKE FOR LATER DISP. NO SMOKING, FLAMES/FLARES IN HAZ(ING 20)

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

Other Precautions: KEEP AWAY FROM SPARKS OR IGNITION SOURCES.

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Exposure Controls/Personal Protection =======

Respiratory Protection: SPEC RESP SELECTED MUST BE BASED ON CONTAM
LEVELS FOUND IN WORKPLACE, MUST NOT EXCEED WORKING LIM OF RESP & BE
JOINTLY APPRVD BY NATL INSTITUTE FOR OCCUP SFTY & HLTH & MINE SFTY
& HLTH ADMIN NIOSH-MSH A. FOR INFO CONCERNING RESP (ING 23)

Ventilation:PROVIDE LOCAL EXHAUST VENTILATION SYSTEM TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: CHEMICAL WORKERS GOGGLES.

O

ther Protective Equipment:APPROP PROT (IMPERVIOUS) CLTHG & EQUIP TO PREVENT REPEATED OR PROLONGED SKIN CONTACT WITH THIS SUBSTANCE.

Work Hygienic Practices: CONTACT LENSES SHOULD NOT BE WORN.

Supplemental Safety and Health

EXTING MEDIA: BURNING MATL. FIRE FIGHT PROC: STAY AWAY FROM STOR TANK ENDS. FOR MASSIVE FIRE IN CARGO AREA, USE UNMANNED HOSE HOLDER/MONITOR NOZZ, ELSE W/DRAW & LET FIRE BURN. EFTS OF OVEREXP: W/RED & PAIN. COPPER PARTICLES IN EYE MAY RSLTIN FOREIGN BODY RE

## SPONSE W/CHARACT DISCOLORATION OF OCULAR TISSUE, (ING 2) ========= Physical/Chemical Properties =========== Boiling Pt:B.P. Text:4653F,2567C Melt/Freeze Pt:M.P/F.P Text:1946F,1063C Vapor Pres:1@1628C Spec Gravity:8.92 Solubility in Water: INSOLUBLE Appearance and Odor: REDDISH, DUCTILE, MALLEABLE, LUSTROUS METAL OR CUBIC CRYSTALS. ======== Stability and Reactivity Data ========== Stability Indicator/Materials to Avoid:YES ACETYLENE, CHLORINE, FLUORINE, L EAD AZIDE, SULFURIC ACID. FOR MORE EXACTING LIST OF MATL TO AVOID, CONT NEHC. Stability Condition to Avoid: AVOID DISPERSION OF DUST IN AIR. FINELY DIVIDED PARTICLES, DUST/FUMES MAY BE FLAMM/EXPLOS. Hazardous Decomposition Products: THERMAL DECOMPOSITION MAY RELEASE TOXIC &/OR HAZARDOUS GASES. ======= Disposal Considerations ============ Waste Disposal Methods: REPORATABLE QTY: 5000 PDS. IF REL OF SUBSTANCE IS REPORTABLE UNDER CERCLA SEC 103, NATL RESPONSE C TR MUST BE NOTIFIED IMMED @ (800)424-9300/(202) 426-2675 IN METROPOLITAN WASHINGTON, D.C. AREA (40 CFR 302.6) OBSERVE ALL FED/ST/LOC REGS. (ING22) Disclaimer (provided 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,

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