

AMERICHEM -- COPPER CYANIDE -- 6810-01-228-3360

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

Product ID:COPPER CYANIDE

MSDS Date:07/16/1991

FSC:6810

NIIN:01-228-3360

Status Code:A

MSDS Number: CJCLH

=== Responsible Party ===

Company Name:AMERICHEM

Address:X

City:PHILADELPHIA

State:PA

Country:US

Info Phone Num:OUT OF BUSINESS

Emergency Phone Num:800-851-8061

Preparer's Name:HMIS-VBA

CAGE:0S3W4

=== Contracto

r Identification ===

Company Name:AMERICHEM

Address:X

Box:City:PHILADELPHIA

State:PA

Country:US

Phone:OUT OF BUSINESS

CAGE:0S3W4

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

Ingred Name:COPPER CYANIDE (SARA 313) (CERCLA) (AS COPPER COMPOUND & AS
CYANIDE COMPOUND)

CAS:544-92-3

RTECS #:GL7150000

Fraction by Wt: >99%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG (CU)/M3

ACGIH TLV:1 MG (CU)/M3; 9495

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

===== Hazards

Identification =====

LD50 LC50 Mixture:1MG CYANIDE SALT/KG BODY WT CAN BE FATAL

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHAL:INHAL OF BUMES OF HCN PRODUCED ON CONTACT W/ACIDS IS PRIMARY HAZ CAUSING FATAL CYANIDE POIS.VERY HIGH CONCEN OF CUCN DUST CAUSE POIS.INGEST:CYANIDE POIS,DEATH.1MG CYANIDE SALT/KG BODY WT CAN BE FATAL.SKIN:IRRIT.NORMAL SKIN ABSORBS CYAN

IDE SALTS.CUTS/ABRASIONS ABSORB CYANIDES RAPIDLY,50MG CYANIDE SALT ABSORB(SUPP)

Explanation of Carcinogenicity:MATL NOT CONSIDERED TO BE CARCINOGENIC BY NTP/IARC/OSHA.REPORTED EXCESS CANCER CASES FRM CU SMELTING INDUSTRY.

Effects of Overexposure:INHAL:FATAL CYANIDE POISONING.INGEST: CYANIDE POISONING,DEATH,SYMPTOMS:SALIVATION,NAU W/O VOMIT,ANXIETY, CONFUSION,VERTIGO,GIDDINESS,LOWER JAW STIFFNESS,CONVULSIONS,OPISTHOTONGS, PARALYUSIS,COMA,CARD IAC ARRHYTHMIAS,RESP STIM

ULATION FOLLOWED BY RESP

FAILURE.SKIN:IRRIT,ABSORBED THRU SKIN/CUTS,FATAL.EYE:IRRIT,BURNS.

Medical Cond Aggravated by Exposure:NONE KNOWN.

===== First Aid Measures =====

First Aid:INHAL:REMOVE TO FRESH AIR.NIOT BREATH GIVE ART RESP.GET IMMED MED ATTN.IF INHALED ADMINISTER AMYL NITRITE PEARLS AS INGEST BELOW.EYE:IMMED FLUSH W/LOTS OF RUNNING WATER FOR 15MINS,LIFTING EYELIDS.GET IMMED MED ATTN.INGEST:BREAK AMYL NITRITE PEARL IN CLOTH & H

OLD LIGHTLY UNDER NOSE FOR 15SECS.REPEAT 5X @ABOUT 15 SEC INTERVALS.REPEAT AS NECESSARY USING FRESH AMYL NITRITE PEARL EVERY 3MINS TIL(SUPPL)

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

Extinguishing Media:MATL NOT COMBUSTIBLE.USE ANY APPROPRIATE MEDIUM FOR EXT SURROUNDING FIRES.CARBON DIOXIDE FIRE EXT SHOULD NOT BE USED.

Fire Fighting Procedures:FIRE FIGHTER SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:DO NOT FLUSH COPP

ER CYANIDE INTO RUN-OFF

WATER. CONTACT W/STRONG ACIDS OR WEAK ALKALIS RELEASES HIGHLY POISONOUS, FLAMMABLE HCN GAS.

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

Spill Release Procedures: WEAR PROT EQPMT (RUBB BOOTS & GLOVES & APRON / CHEM GOGG / RESP PROT) SM: SWEEP UP, DISPOSE IN DOT-APPROVED WASTE CNTNR. LG: SHOVEL INTO DOT-APPROVED WASTE CNTNR. FLUSH AREA W/LG QUANT OF WATER TAKING CARE NOT TO LET RUNOFF CONTACT STRONG ACIDS. COMPLY W/GOVT REGS.

Neutralizing Agent

nt: NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions: STORE IN COOL, DRY PLACE. STORE AWAY FROM ALL ACIDS, WEAK ALKALIS, STRONG OXIDIZERS. KEEP CNTNR TIGHTLY CLSD WHEN NOT IN USE. DO NOT GET IN EYE/SKIN/CLOTH.

Other Precautions: EMPTY CNTNR: ALWAYS OBEY HAZ WARN; HNDLG AS FULL. INCOMPAT: CO2 CONTACT W/CYANIDE SOLN LIBERATES HCN GAS. EYES PROT: GENERALLY RECOGNIZED THAT CONTACT LENSES SHOULDN'T BE WORN WHEN WORKING W/CHEM-THEY MAY CONTRIBUTE TO SEVERITY OF ANY EYE INJURY

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

Respiratory Protection: NIOSH-APPROVED DUST RESPIRATOR OR MASK.

Ventilation: LOCAL MECHANICAL EXHAUST VENTILATION CAPABLE OF MINIMIZING DUST EMISSIONS AT POINT OF USE.

Protective Gloves: RUBBER GLOVES.

Eye Protection: NONE SPECIFIED BY MFG (SEE OTHER PRECAU)

Other Protective Equipment: LONG-SLEEVED SHIRT, TROUSERS, SAFETY SHOES, RUBBER APRON. EYEWASH & SAFETY SHOWER NEARBY/READY FOR USE.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

HEALTH HAZ: THRU SKIN FATAL. EYE: IRRIT, BURNS. CHRONIC: SM AMTS OF CYANIDE CMPDS EXPO OVER LONG PER CAUSE LOSS OF APPETITE, HEAD, WEAK, NAU, DIZZ, RESP/EYE IRRIT. 1ST AID: 3-4 PEARLS HAVE BEEN GIVEN. WHEN CONSC R ETURNS/IF CONSC GIVE 1 PINT 1% SODIUM THIOSULFATE SOLUTION (OR SOAPY OR MUSTARD WATER); INDUCE VOMIT. REPEAT TIL VOMIT CLEAR

===== Physical/Chemical =====

Properties =====

HCC:T3

Boiling Pt:B.P. Text:DECOMPOSES

Melt/Freeze Pt:M.P/F.P Text:883F,473C

Spec Gravity:2.92

Solubility in Water:APPRECIABLE.

Appearance and Odor:WHITE TO LIGHT TAN FINE POWDER; PUNGENT ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

CONTACT W/ACIDS OR WEAK ALKALIS LIBERATE POIS GAS;RXS VIO W/NITRATES & OTHER OXIDIZERS.RXS VIO W/MG.(SEE OTHER PRECAUT)

Stability Condition to Avoid:NONE

Ha

zardous Decomposition Products:WILL LIBERATE VERY TOXIC FUMES OF NITROGEN OXIDES & HYDROGEN CYANIDE.

===== Disposal Considerations =====

Waste Disposal Methods:DISP OF CONTAMIN PROD/MATLS USED IN CLEANING SPILLS/LEAK IN MANNER APPROVED FOR MATL.CONSULT FED/STATE/LOC REG AGENCIES TO ASCERTAIN PROPER DISP PROCEDURES.EMPTY CNTNR CAN HAVE RESIDUES/GAS/MIST- SUBJ TO PROPER WASTE DISP AS ABOVE.HAS SARASEC313 CHE

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, 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.