

EUTECTIC CORP -- EUTECROD 180 -- 3439-00-056-0042

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Product Identification  
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Product ID:EUTECROD 180  
MSDS Date:09/12/1994  
FSC:3439  
NIIN:00-056-0042  
Status Code:A  
MSDS Number: CJKKW  
=== Responsible Party ===  
Company Name:EUTECTIC CORP  
Address:9600-H SOUTHERN PINE BLVD  
City:CHARLOTTE  
State:NC  
ZIP:28217  
Country:US  
Info Phone Num:800-323-4845  
Emergency Phone Num:800-323-4845  
Resp. Party Other  
MSDS Num.:BE60  
CAGE:72271  
=== Contractor Identification ===  
Company Name:EUTECTIC CORP  
Address:9625-J SOUTHERN PINE BLVD  
Box:City:CHARLOTTE  
State:NC  
ZIP:28273  
Country:US  
Phone:704-527-9800/ 800-221-1433  
CAGE:72271

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Composition/Information on Ingredients  
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Ingred Name:COPPER  
CAS:7440-50-8  
RTECS #:GL5325000  
> Wt:90.  
Other REC Limits:TLV:0.2 MG/M3 (M)  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:PHOSPHORUS  
CAS:7723-14-0  
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TECS #:TH3495000  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.1 MG/M3;0.02 PPM  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:LITTLE/NO HAZS EXIST FOR ARC WELDING  
ELECTRODES & BRAZING RODS BEFORE THEY ARE USED IN WELDING PROCESS.  
EYE/SKIN CONT:ARC RAYS & UV LIGHT CAN INJURE EYES & BURN SKIN. LIQS  
USE  
D IN FLUXES & CHEM AIDS M AY CAUSE IRRIT/POSS CHEM BURNS. ELEC  
SHOCK CAN KILL. INGEST:DANGER! MAY BE HARMFUL/FATAL IF SWALLOWED.  
GEN LIM FOR WELDING FUME & NUISANCE DUST (ACGIH) IS 5 MG/M3 & 10  
MG/M3, RESPECTIVELY. GEN WELDING FUMES:(PEL/TLV=5 MG/M3) ELEC ARC  
WELDING, BRAZING, SOLDERING/THERMAL SPRAYING MAY CREATE ONE/MORE OF  
FOLLOWING HLTH HAZS ASSOC W/INGS. FUMES, GASES & DUSTS CAN BE  
DANGEROUS TO YOUR HLTH. CERTAIN MED STUDIES HAVE SUGGESTED (EFTS  
OF OVEREXP)

Eff  
ects of Overexposure:HLTH HAZ:THAT LUNG DMG CAN RSLT FROM OVEREXP TO  
THESE FUMES. SHORT TERM OVEREXP MAY RSLT IN DIZZ, NAUS, OR  
DRYNESS/IRRIT OF NOSE, THROAT/EYES. EXCESSIVE OVEREXP MAY CAUSE  
BRONCH ASTHMA, LUNG FIBROSIS, PNEUMOCONIOSIS/SIDEROSIS (IRON  
DEPOSITSIN LUNG). METAL FUME FEVER:CAN BE CAUSED BY INHAL OF  
CERTAIN METALLIC CMPDS DURING WELDING, HEATING, BRAZING,  
SOLDERING/CUTTING OPERATIONS. SYMPS ARE SIMILAR TO FLU-TYPE  
SICKNESS INCL CHILLS, FEVER, HEAD & MUSC  
LE ACHE, TIGHTNESS OF  
CHEST, DRYNESS OF NOSE & MOUTH, MUSC PAIN, NAUS & VOMIT. SYMPS  
USUALLY OCCUR W/IN SEVERAL HRS AFTER OVEREXP & MAY LAST 6-24 HRS.  
CONSULT MD IMMED IF ANY OF (SUPP DATA)

Medical Cond Aggravated by Exposure:AGGRAVATION OF PREEXISTING  
RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.

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

First Aid:INHALATION: MOVE VICTIM TO FRESH AIR SOURCE. CONTACT MD &  
ADVISE ON INGREDIENTS LIS

TEDE. SKIN: THOROUGHLY WASH HANDS OR AFFECTED AREAS WITH SOAP & WATER TO REMOVE ALL RESIDUE. IF RASH OR BURN DEVELOPS, CONSULT MD. EYES: THOROUGHLY FLUSH WITH WATER FOR AT LEAST 15 MINUTES TO REMOVE ALL RESIDUE. OBTAIN PROMPT MEDICAL ADVICE FOR FLUXES & CHEMICAL AIDS. ADVISE MD OF INGREDIENTS LISTED. INGESTION: CALL M D &/OR LOCAL POISON CONTROL CENTER. ADVISE OF INGREDIENTS LISTED.

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

Extinguishing Media:

CO\*2, DRY CHEMICAL FOAM TYPE.

Fire Fighting Procedures:USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:HMIS RATING:HLTH-2; FLAMMABILITY-0; REACTIVITY-0. REFER TO ANSI Z49.1 FOR FIRE PREVENTION DURING USE OF WELDING & ALLIED PROCESSES. ELECTRODE/BRAZING/SOLDERS:GENRLY NONFLAMM; WELDING ARC, SPKS & FLAMES CAN IGNITE COMBUSTS & FLAMMS. THERMAL SPRAY PWDRS:NONFLAMM UNDER NORM WORKING CNDTNS. METAL PWDR DUST (ECOLOGICAL INFO)

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

Spill Release Procedures:IF FLUX OR CHEMICAL AID IS ACCIDENTALLY SPILLED, CONTAIN SPILL, ABSORB & SWEEP UP. FLUSH AREA WITH WATER TO APPROVED CHEMICAL DRAIN. SEE SAFE HANDLING & STORAGE SECTION FOR PROPER SAFE HANDLING & STOR AGE.

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

Handling and Storage Precautions:TRAIN WELDER TO KEEP HIS/HER FACE AWAY FROM FUME OR DUST PLUME. TRAIN WORKERS NOT TO TOUCH LIVE ELECTRICAL

PARTS & TO INSULATE THEMSELVES FROM WORK & ELECTRICAL GROUND.

Other Precautions:PLEASE READ & UNDERSTAND PRODUCT LABEL INFORMATION FOR PROPER PROCEDURES & USE. SEE ANSI Z49.2, "SAFETY IN WELDING & CUTTING," & CHAPTER 11 OF "THERMAL SPRAYING," PUBLISHED BY AMERICAN WELDING SOCIETY & OSHA PUBLICATION 2206 (29 CFR 1910) FOR MORE DETAIL.

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

Respiratory Protection:IF THE WORK STATION IS NOT PROPERLY

VENTILATED

TO EXHAUST ALL FUMES, VAPORS & DUSTS BELOW THE RECOMMENDED EXPOSURE LIMITS, USE A NIOSH APPROVED RESPIRATOR.

Ventilation:USE ENOUGH GENERAL VENTILATION & LOCAL EXHAUST AT THE WORK SITE TO KEEP ALL FUMES & DUSTS FROM WORKER'S BREATHING ZONE & THE GENERAL AREA.

Protective Gloves:WELDER'S GLOVES.

Eye Protection:ANSI APPRVD CHEM WORK GOGGS & FULL LGTH FSHLD W/APPROP (TOX INFO)

Other Protective Equipment:ANSI APPRVD EYE WASH & DELUGE SHOWER . WEAR HAND, HEAD & BOD

Y PROT WHICH HELP TO PVNT INJURY FROM RADIA, SPKS & ELEC SHOCK. THIS MAY INCL ARM PROTECTOR'S, APRONS, HATS AS WELL AS DARK PROT CLTHG.

Work Hygienic Practices:ALWAYS WASH HANDS THOROUGHLY AFTER USE. DO NOT WEAR CONTACT LENSES.

Supplemental Safety and Health

EFTS OF OVEREXP:THESE SYMPS DEVEL AFTER WELDING OPERATION. GEN NUISANCE DUSTS:LISTED AS PARTICLES NOT OTHERWISE CLASSIFIED, TLV/PEL=10/15 MG/M3). MOST NUISANCE DUSTS ARE INERT, NONTOX & CHEMICALLY NON IRRIT. SKIN CONT

HAS SHOWN NO PROBS OTHER THAN POSS DRYING & MECH IRRIT. EYE CONT CAN PRDCE PARTICULATE IRRIT.(TOX INFO)

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

Stability Indicator/Materials to Avoid:YES

FLUXES & INERT CHEMICAL AIDS: STRONG ACIDS, CYANIDES, SULFIDES.

FLAMMABLE: NOT APPLICABLE.

Stability Condition to Avoid:FLUXES & INERT CHEMICAL AIDS: NONE.

FLAMMABLE: HEAT, FLAME, SPARKS.

Hazardous Decomposition Products:FLUXES & INERT CHEM AIDS:IN PRESENCE OF WATER

& HEAT FLUXES MAY GIVE OFF HCL & HF. FLAMM:TERM "HAZ"

SHOULD BE INTERPRETED AS TERM DEFINED IN OSHA HAZ COMMUNICATION STD (29 CFR 1910.1200)(TRANSPORT INFO)

===== Toxicological Information =====

Toxicological Information:SUPP DATA:DOES NOT SEEM TO BE ABSORBED BY BODY THRU INGEST. EXCESSIVE INHAL CAN PRDCE MILD PULM IRRIT & POSS NONDISABLING SLIGHT FIBROSIS OF LUNGS. COPPER & CU CMPDS:INHAL OF FRESH COPPER OXIDE FUME M AY CAUSE METAL FUME FEVER.

NO ADVERSE

LONG TERM HLTH EFTS HAVE BEEN REPORTED IN LITERATURE.--EYE PROT:  
FILTER LENS. PROVIDE SCREENS & FLASH GOGGS IF NEC, TO SHIELD  
OTHERS. AS A RULE, START W/SHADE THA T IS TOO DARK TO SEE WELD  
ZONE, THEN GO TO THE NEXT LIGHTER SHADE WHICH GIVESSUFFICIENT VIEW  
OF THE WELD ZONE.

===== Ecological Information =====

Ecological:EXPLO HAZ:MAY PRESENT FIRE/EXPLO HAZ UNDER FAVORABLE CNDTNS  
OF PARTICLE SIZE, DISPERSION & STRONG IGNIT SOUR

CE. THIS IS MOST

PREVALENT W/REACTIVE METAL PWDRS SUCH AS ALUMINUM. REFER TO CHAPER  
11 OF "T HERMAL SPRAYING", PUBLISHED BY AWS, FORMORE DETAIL.

FLUXES:ALL E+C FLUXES ARE NONFLAMM & ARE USED AS DEOXIDIZERS DURING  
WELDING, BRAZING/SOLDERING OPERATIONS. CHEM AIDS:SOME E+C CHEM AIDS  
ARE FLAMM. R EFER TO INGS & CHEM HAZS SECTIONS OF MSDS & ATTACHMENT  
& READ CNTNR LBL. WHEN PREPARING WORKPIECE W/FLAMM CHEM AID, KEEP  
ALL WELDING SOURCES, SPKS & FLAMES AT LST 20 FEET FROM WO

RKPIECE

UNTIL FLAMM EV APS. PROVIDE ADEQ VENT. (TRANSPORT INFO)

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

Waste Disposal Methods:DISPOSE OF WASTE MATERIAL, POWDERS, GRINDING OR  
FILTER RESIDUES IN ENVIRONMENTALLY SENSITIVE MANNER I/A/W FEDERAL,  
STATE & LOCAL REGULATIONS. USE APPROPRIATE MEASURES TO KEEP  
AIRBORNE DUST LEVELS CONT AINED I/A/W EXPOSURE LEVELS.

===== MSDS Transport Information =====

Transport Information:ECOL

OGICAL INFO:SOME FLUXES & CHEM AIDS MAY GIVE

OFF HYDROGEN CHLORIDE, PHOSGENE & CHLORINE GASES. CANS UNDER PRESS  
& FLAMMS MAY EXPLODE. -- HAZ DECOMP PROD:& DOES NOT NECESSARILY  
IMPLY EXISTENCE OF A NY HAZ. WELDING ELECTRODES, BRAZING ALLOYS &  
SOLDER SOLIDS AS SHIPPED ARE STABLE, NONFLAMM, NONEXPLO & IN MOST  
CASES NONREACTIVE. CERTAIN FLUXES & CHEM AIDS MAY BE REACTIVE - SEE  
FIRE & EXPLO SECTION & ATTACHMENT FOR THESE PRODS. FUMES, GASES &  
DUSTS GIVEN OFF DURING HEATI

NG, WELDING, BRAZING, SOLDERING,  
CUTTING/THERMAL SPRAY PROCESSES CANNOT BE CLASSIFIED SIMPLY.  
COMPOSITION & QTY OF THESE ARE DEPENDENT UPON METAL (SARA TITLE  
III)

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Regulatory Information  
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SARA Title III Information: COPPER IS LISTED AS TOXIC CHEMICAL IN SUBPART D  
(40 CFR 372), SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF  
EMERGENCY PLANNING & COMMUNITY RIGHT-TO-KNOW ACT, OF 1986. -- TRANSPORT  
INFO: BEING WELDED, PROCESSES, PROCESSES & ELECTRODES/OTHER

CONSUMABLES USED. OTHER CONDITIONS WHICH ALSO INFLUENCE COMPOSITION &

QTY OF FUMES, GASES & DUSTS THAT WORKERS MAY BE EXPOSED TO INCLUDE:  
COATINGS ON WORKPIECE, (PAINT, GALVANIZING, PLATING), NUMBER OF  
WORKERS & VOL OF WORK SPACE, QUALITY & AMT OF VENT, POSITION OF  
WORKER'S HEAD W/RESPECT TO FUMES GENERATED, AS WELL AS PRESENCE OF  
CONTAMINANTS IN ATM (SUCH AS CHLORINATED HYDROCARBON VAPORS FROM (FEDERAL  
REGULATORY)

Federal Regulatory Information: COMPLIES W/OSHA HAZARD COMMUNICATION  
STD 29

CFR 1910.1200. -- SARA TITLE III: CLEANSING & DEGREASING  
ACTIVITIES). DURING WELDING, THERMAL SPRAYING & ALLIED PROCESSES,  
FUME & GAS DECOMPOSITION PRODUCTS GENERATED ARE DIFFERENT IN PERCENT & FORM FROM  
THOSE LISTED. DECOMPOSITION PRODUCTS OF NORMAL OPERATION INCLUDE THOSE  
ORIGINATING FROM VOLATILIZATION, REACTION/OXIDATION OF MATERIALS SHOWN IN  
TABLES, PLUS THOSE OF BASE METAL & COATING, ETC, AS NOTED. REASONABLE  
EXPECTED CONSTITUENTS OF FUME MAY INCLUDE: COMPLEX OXIDES OF METALS  
LISTED IN TABLES

FLUX COATINGS MAY PRODUCE FLUORIDE COMPOUNDS, METAL  
OXIDES, CARBON & SILICA. GASEOUS REACTION PRODUCTS MAY INCLUDE OZONE, CARBON  
MONOXIDE, (STATE REGULATORY INFO)

State Regulatory Information: FEDERAL REGULATORY: CARBON DIOXIDE, NITROGEN  
OXIDES & CERTAIN INERT GASES USED AS SHIELDING GASES. ONE RECOMMENDED WAY  
TO DETERMINE COMPOSITION & QTY OF FUMES & GASES TO WHICH WORKERS  
ARE EXPOSED IS TO TAKE AN AIR SAMPLE INSIDE WORKER'S HELMET IF  
WORN IN WELDER'S BREATHING ZONE. SEE ANSI/AWS F1.1 AVAILABLE FROM AMERICAN

WELDING SOCIETY, P.O. BOX 351040, MIAMI, FL 33135. ALSO FROM AWS IS  
F1.3 "EVALUATING CONTAMINANTS IN THE WELDING ENVIRONMENT - A  
SAMPLING STRATEGY GUIDE," WHICH GIVES ADDITIONAL ADVICE ON  
SAMPLING.

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Other Information  
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