

EUTECTIC CORP -- EUTECTRODE 4, 428862-01 -- 3439-00-056-3606

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

Product ID:EUTECTRODE 4, 428862-01

MSDS Date:09/07/1995

FSC:3439

NIIN:00-056-3606

MSDS Number: CGDSG

=== Responsible Party ===

Company Name:EUTECTIC CORP

Address:1515 BROOK DR

City:DOWNERS GROVE

State:IL

ZIP:60515

Country:US

Info Phone Num:800-323-4845

Emergency Phone Num:800-323-4845

CAGE:72271

=== Co

ntractor 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

Company Name:EUTECTIC CORPORATION

Address:1515 BROOK DR

Box:City:DOWNERS GROVE

State:IL

ZIP:60515

Country:US

Phone:800-323-4845

CAGE:5N977

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

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

OSHA PEL:15 MG/M3 (MFR)

ACGIH TLV:10 MG/M3 (MFR)

Ingred Na

me:POTASSIUM SILICATE

CAS:1312-76-1

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:CHROMIUM (SARA 313) (CERCLA)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 5-10%

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:MANGANESE (SARA 313)

CAS:7439-96-5

RTECS #:OO9275000

Fraction by Wt: 5-10%

OSHA PEL:5 MG/M3 DUST, C

ACGIH TLV:5 MG/M3 DUST

Ingred Name:TITANIUM OXIDE; (TITANIUM DIOXIDE)

CAS:13463-67-7

RTECS #:XR2275000

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST

I

ngred Name:NICKEL (SARA 313) (CERCLA)

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: 1-5%

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

Ingred Name:CALCIUM FLUORIDE (AS F)

CAS:7789-75-5

RTECS #:EW1760000

OSHA PEL:2.5 MG/M3 (F) (MFR)

ACGIH TLV:2.5 MG/M3 (F) (MFR)

Ingred Name:CELLULOSE (PAPER FIBER)

CAS:9004-34-6

RTECS #:FJ5691460

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3

Ingred Name:FELDSPAR

CAS:68476-25-5

OSHA PEL:15 MG/M3 (MFR)

ACGIH TLV:10 MG/M3 (MFR)

Ingred Name:IRON OXIDE; (MAGNETITE)

CAS:1309-38

-2

RTECS #:OM4800000

OSHA PEL:15 MG/M3 (FE) (MFR)

ACGIH TLV:10 MG/M3 (FE) (MFR)

Ingred Name:POTASSIUM TITANATE

CAS:12030-97-6

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:MOLYBDENUM

CAS:7439-98-7

RTECS #:QA4680000

OSHA PEL:10 PPM

ACGIH TLV:10 PPM

Ingred Name:SUPP DATA:DARK TO SEE WELD ZONE, THEN GO TO NEXT LIGHTER SHADE WHICH GIVES SUFFICIENT VIEW OF THE WELD ZONE.

RTECS #:9999999ZZ

Ingred Name:HAZ DECOMP PROD:CANNOT BE CLASSIFIED SIMPLY. COMPOSITION & QTY OF THESE ARE DEPENDENT UPON MET

AL BEING WELDED, (ING 15)

RTECS #:9999999ZZ

Ingred Name:ING 14:PROCESS, PROCS & ELECTRODES/OTHER CONSUMABLES USED. DURING WELDING, THERMAL SPRAYING & ALLIED PROCESSES, (ING 16)

RTECS #:9999999ZZ

Ingred Name:ING 15:FUME & GAS DECOMP PRODS GENERATED ARE DIFF IN PERCENT IN FORM FROM INGS LISTED. GASEOUS RXN PRODS MAY (ING 17)

RTECS #:9999999ZZ

Ingred Name:ING 16:INCL OZONE, CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES & CERTAIN INERT GASES USED AS SHIELDING (ING 18)

RTECS #:99999

99ZZ

Ingred Name:ING 17:GASES. FOR MORE SPECIFIC INFORMATION REGARDING HAZARDOUS DECOMPOSTION PRODUCTS CONTACT NEHC .

RTECS #:9999999ZZ

Ingred Name:EFTS OF OVEREXP:SIDEROSIS (IRON DEPOSITS IN LUNG). METAL FUME FEVER:CAN BE CAUSED BY INHAL OF CERTAIN METALLIC (ING 20)

RTECS #:9999999ZZ

Ingred Name:ING 19:CMPDS DURING WELDING, HEATING, BRAZING, SOLDERING/CUTTING OPERATIONS. SYMPS ARE SIMILAR TO FLU-TYPE (ING 21)

RTECS #:9999999ZZ

Ingred Name:ING 20:SICKNESS INCL CHILLS, FEVER,

HEAD & MUSC ACHE,  
TIGHTNESS OF CHEST, DRYNESS OF NOSE & MOUTH, MUSCULAR (ING 22)  
RTECS #:9999999ZZ

Ingred Name:ING 21:PAIN, NAUS & VOMIT. SYMPS USUALLY OCCUR W/IN SEVERAL  
HRS AFTER OVEREXP & MAY LAST 6-24 HRS. CONSULT MD (ING 23)  
RTECS #:9999999ZZ

Ingred Name:ING 22:IMMEDIATELY IF ANY OF THESE SYMPTOMS DEVELOP AFTER  
WELDING OPERATION. FOR MORE SPECIFIC INFORMATION (ING 24)  
RTECS #:9999999ZZ

Ingred Name:ING 23:REGARDING HEALTH HAZARDS OF INDIVIDUAL INGREDIENTS  
CONTACT NEHC .  
RT  
ECS #:9999999ZZ

Ingred Name:OTHER PREC:SPRAYING", PUBLISHED BY THE AMERICAN WELDING  
SOCIETY & OSHA PUBLICATION 2206 (29 CFR 1910) FOR MORE DETAILS.  
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

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

Health Hazards Acute and Chronic:INHAL:FUMES CAN BE DANGEROUS TO YOUR  
HLTH & OVEREXP CAN C

AUSE LUNG DMG &/OR OTHER ORG DMG. EYE/SKIN

CONT:ARC RAYS & UV LIGHT CAN INJURE EYES & BURN SKIN. LIQS USED IN  
FLUXES & CHEM AIDS MAY CAUSE IRRIT/POSS CHEM BURNS. ELEC SHOCK CAN  
KILL.INGEST:DANGER! MAY BE HARMFUL/FATAL IF SWALLOWED. GEN WELDING  
(EFTS OF OVEREXP)

Explanation of Carcinogenicity:NICKEL:IARC MONOGRAPHS, VOL 49, PG 247,  
1990:GRP 2B. NTP 7TH ANNUAL RPT ON CARCINS, 1994:ANTIC TO BE  
CARCIN. (SUPP DATA)

Effects of Overexposure:HLTH HAZ:FUMES:FUMES, GASES & DUSTS C  
AN BE

DANGEROUS TO YOUR HLTH. CERTAIN MED STUDIES HAVE SUGGESTED THAT  
LUNG DMG CAN RSLT FROM OVEREXP TO THESE FUMES. SHORT TERM OVEREXP  
MAY RSLT IN DIZZ, NAUS, DRYNESS/IRRIT OF NOSE, THROAT/EYES.  
EXCESSIVE OVEREXP MAY CAUSE BRONCH ASTHMA, LUNG FIBROSIS,  
PNEUMOCONIOSIS/ (ING 19)

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

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

First Aid:INHAL:MOVE VICTIM TO FRESH AIR SOURCE. CONTACT MD & ADVISE ON INGS LISTED. SKIN:THORO WASH HANDS/AFFECTED AREAS W/SOAP & WATER TO REMOVE ALL RESIDUE. IF RASH/BURN DEVELOPS, CONSULT MD. EYES:THORO FLUS H W/WATER FOR AT LEAST 15 MINUTES TO REMOVE ALL RESIDUE. OBTAIN PROMPT MED ADVICE FOR FLUXES & CHEMICAL AIDS. ADVISE MD OF INGS LISTED. INGEST:CALL MD &/OR LOCAL POIS CTL CTR. ADVISE OF INGS LISTED.

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

Extinguishing Media:CO\*2, DRY CHEMICAL FOAM TYPE.

Fire Fighting Procedures:USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT . TOXIC FUMES MAY BE PRODUCED. SEE HAZARDOUS DECOMPOSITION PRODUCTS SECTION.

Unusual Fire/Explosion Hazard:GENRLY NONFLAMM:WELDING ARC, SPKS & FLAMES CAN IGNITE COMBUSTS & FLAMMS. SOME FLUXES & CHEM AIDS MAY GIVE OFF HYDROGEN CHLORIDE, PHOSGENE & CHLORINE (SUPP DATA)

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

Spill Release

Procedures:NONE SPECIFIED BY MANUFACTURER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:TRAIN WELDER TO KEEP HIS/HER FACE AWAY FROM FUME/DUST PLUME. USE ADEQUATE VENTILATION TO KEEP BELOW EXPOSURE LIMITS. HANDLE W/CARE.

Other Precautions:TRAIN WORKERS NOT TO TOUCH LIVE ELEC PARTS & TO INSULATE THEMSELVES FROM WORK & ELEC GROUND. PLEASE READ & UNDERSTAND PROD LBL INFO FOR P

ROPER PROCS & USE. SEE ANSI Z49.1,

"SFTY IN WELDING & CUTTING", & CHAPTER 11 OF "THERMAL (ING 25)

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

Respiratory Protection:IF WORK STATION IS NOT PROPERLY VENTILATED TO EXHAUST ALL FUMES, VAPORS & DUSTS BELOW RECOMMENDED EXPOSURE LIMITS, USE A NIOSH APPROVED RESPIRATOR.

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

Protective G

loves:WELDER'S GLOVES.

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGS &(SUPDAT)

Other Protective Equipment:ANSI APPRVD EYE WASH FOUNTAIN & DELUGE  
SHOWER . WEAR HAND, HEAD & BODY PROT; THIS MAY INCL ARM  
PROTECTORS,(SUPDAT)

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EXPLO HAZ:GASES. CANS UNDER PRESS & FLAMMS MAY EXPLODE. EXPLAN OF  
CARCIN:ANIMAL:LUNGS, NASAL CAVITIES. OTHER PROT EQUIP:APRONS, HATS  
AS WELL AS DARK, PROT CLTHG. EYE PROT:FULL

LGTH FSHLD , W/APP ROP

FILTER LENS. PROVIDE PROT SCREENS &FLASH GOGGS IF NEC, TO SHIELD  
OTHERS. AS RULE, START W/SHADE THAT IS TOO(ING 13)

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

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

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

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition

Products:FUMES, GASES & DUSTS GIVEN OFF DURING

HEATING, WELDING, BRAZING, SOLDERING, CUTTING/THERMAL SPRAY  
PROCESSES (ING 14)

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

Waste Disposal Methods:DISP OF WASTE MATL, POWDERS, GRINDING/FILTER  
RESIDUES IN AN ENVIRONMENTALLY SENSITIVE MANNER I/A/W FED, STATE &  
LOC REGS. USE APPROP MEASURES TO KEEP AIRBORNE DUST LEVELS CNTND  
I/A/W EXPOS LEVELS. SEE GEN HAZ SUMMARY SECTION FOR SAFE HNDLG&  
STORAGE.

Disc

claimer (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.