

EUTECTIC CORP -- XUPERBOND THERMAL SPRAY POWDER -- 3439-01-074-3199

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Product Identification  
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Product ID:XUPERBOND THERMAL SPRAY POWDER

MSDS Date:06/23/1997

FSC:3439

NIIN:01-074-3199

Status Code:A

MSDS Number: CHVNR

=== Responsible Party ===

Company Name:EUTECTIC CORP

Address:40-40 172ND STREET

City:FLUSHING

State:NY

Country:US

Info Phone Num:718-358-4000

Emergency Phone Num:718-358-4000

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:NICKEL (SARA 313) (CERCLA)

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: >50%

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

Ingred Name:ALUMINUM (SARA 313)

CAS:7429-90-5

RTECS #:BD0330000

Fraction by Wt: 1-5%

OSHA PEL:15 MG/M

3 DUST  
ACGIH TLV:10 MG/M3 DUST

Ingred Name:CHROMIC ACID, LEAD(2+) SALT(1:1); (LEAD CHROMATE)  
CAS:7758-97-6  
RTECS #:GB2975000  
Fraction by Wt: 1-5%  
OSHA PEL:15 MG/M3 DUST  
ACGIH TLV:10 MG/M3 DUST

Ingred Name:SUPDAT:NAVAL CAVITIES. LEAD CHROMATE:IARC MONO ON EVAL OF  
CARCIN RISK OF CHEMS TO MAN, VOL 49, PG 49, 1990: (ING 5)  
RTECS #:9999999ZZ

Ingred Name:ING 4:GROUP 1. NTP 7TH ANNUAL RPT ON CARCINS.  
1994:ANTICIPATED TO BE CARCINOGEN.  
RTECS #:9999999ZZ

Ingred Name:EFTS OF OVEREXP:GENERAL WE  
LDING FUMES:ELEC ARC WELDING,  
BRAZING, SOLDERING/OTHER SPRAYING MAY CREATE ONE/MORE (ING 7)  
RTECS #:9999999ZZ

Ingred Name:ING 6:OF FOLLOWING HLTH HAZS ASSOC W/KEY INGREDIENTS. FUMES,  
GASES & DUSTS CAN BE DANGEROUS TO HLTH.  
RTECS #:9999999ZZ

Ingred Name:ING 7:STUDIES HAVE SUGGESTED LUNG DAMAGE CAN RSLT FROM  
OVEREXPOSURE TO THESE FUMES. SHORT TERM OVEREXPOSURE MAY (ING 9)  
RTECS #:9999999ZZ

Ingred Name:ING 8:RESULT IN DIZZINESS, NAUSEA OR DRYNESS OR IRRIT OF  
NOSE, THROAT/EYES. EXCESS  
OVEREXP MAY CAUSE BRONCHIAL (ING 10)  
RTECS #:9999999ZZ

Ingred Name:ING 9:ASTHMA, LUNG FIBROSIS, PNEUMOCONIOSIS (IRON DEPOSITS  
IN LUNG). METAL FUME FEVER:CAN BE CAUSED BY INHAL OF (ING 11)  
RTECS #:9999999ZZ

Ingred Name:ING 10:CERTAIN METALLIC CMPDS DURING WELDING, HEATING,  
BRAZING, SOLDERING/CUTTING OPERATIONS, SYMPS ARE SIMILAR (ING 12)  
RTECS #:9999999ZZ

Ingred Name:ING 11:TO INFLUENZA TYPE SICKNESS INCL CHILLS, FEVER, HEAD  
& MUSCLE ACHE, TIGHTNESS OF CHEST, DRYNESS OF NOSE & (IN

G 13)  
RTECS #:9999999ZZ

Ingred Name:ING 12: MOUTH, MUSCLE PAIN, NAUSEA & VOMITING. SYMPS USUALLY OCCUR W/IN SEVERAL HRS. AFTER OVEREXP & LAST 6-24 (ING 14)  
RTECS #:9999999ZZ

Ingred Name:ING 13: HRS. CONSULT PHYS IMMED IF ANY OF THESE SYMPS DEVELOP AFTER WELDING OPERATION. ALUMINUM DIOXIDE:SKIN CONT(ING 15)  
RTECS #:9999999ZZ

Ingred Name:ING 14: HAS SHOWN NO PROBLEMS OTHER THAN POSSIBLE DRYING & MECHANICAL IRRITATION. EYE CONT CAN PRDCE PARTICULATE (ING 16)  
RTECS #:9999999ZZ

Ingred Name:ING 15: IRRIT. EXCESSIVE INHALATION CAN PRDCE MILD PULM IRRIT & POSS NONDISABLING SLIGHT FIBROSIS OF LUNGS. FOR (ING 17)  
RTECS #:9999999ZZ

Ingred Name:ING 16: MORE SPECIFIC INFORMATION CONTACT NEHC .  
RTECS #:9999999ZZ

Ingred Name:EYE PROT: APPROP FILTER LENS. PROVIDE PROT SCREENS & FLASH GOGGLES IF NECESSARY, TO SHIELD OTHERS AS A RULE, (ING 19)  
RTECS #:9999999ZZ

Ingred Name:ING 18: START WITH A SHADE THAT IS TOO DARK TO SEE THE WELD ZONE, THEN GO TO NEXT LIGHTER SHADE WHICH GIVES (ING 20)  
RTECS #:9999999ZZ

Ingred Name:ING 19: SUFFICIENT VIEW OF THE WELD ZONE.  
RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP: SPARKS & ELECTRICAL SHOCK. ARMS PROTECTORS, APRONS, HATS AS WELL AS DARK, PROTECTIVE CLOTHING. (ING 22)  
RTECS #:9999999ZZ

Ingred Name:ING 21: TRAIN WORKERS NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO INSULATE THEMSELVES FROM WORK AND ELECTRICAL GROUND.  
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:LEAD APPEARS ON THE NAVY LISTING OF OCCUP CHEM REPROD HAZARDS. SEEK CONSULTATION FROM APPROP HLTH PROFESSIONALS CONCERNING LATEST HAZARD LIST INFO & SAFE HNDLG & EXPOS INFO . ACUTE:INHAL:FUMES A SSOC W/HEATING, WELDING, BRAZING, SOLDERING/CUTTING METALS CAN BE DANGEROUS TO HLTH & OVEREXP CAN (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NICKEL:IARC MONO ON EVAL OF CARCIN RISK OF CHEMS TO MAN, VOL 49, PG 257, 1990:GROUP 2B. NTP 7TH ANNUAL RPT ON (SUPDAT)

Effects of Overexposure:HLTH HAZ:CAUSE LUNG DMG &/OR OTHER ORGAN DMG. KEEP FUMES & GASES FROM BRTHG ZONE-KEEP WELDER'S HEAD OUT OF FUMES. EYES/SKIN:ARC RAYS & ULTRAVIOLET LIGHT CAN INJURE EYES & BURN SKIN. LIQS USED IN FLUXE S & CHEM AIDS MAY CAUSE IRRIT/POSS CHEMBURNS. HNDL W/CARE. INGEST:DANGER! MAY BE HARMFUL/FATAL IF SWALLOWED. (ING 6)

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

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

First Aid:INHAL:MOVE VICTIM TO FRESH AIR SOURCE. CONT PHYS & ADVISE ON INGREDIENTS. SKIN:THOROUGHLY WASH HANDS/EFFECTED AREAS W/SOAP & WATER TO REMOVE ALL RESIDUE. IF RASH/BURNS DEVELOP, CONSULT PHYS. EYE:THOROUGHLY FLUSH W/WATER FOR @ LST 15 MINS TO REMOVE ALL RESIDUE. OBTAIN PROMPT MED ADVISE FOR FLUXES & CHEM AIDS. ADVISE PHYS OF INGREDIENTS. INGEST:CALL PHYS AND/OR LOCAL POIS CTL CTR. ADVISE OF INGREDIENTS.

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

Extinguishing Media:CO\*2 DRY CHEMICAL FOAM TYPE.  
Fire Fighting Procedures:WEAR NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT . TOXIC FUMES MAY BE PRODUCED.  
Unusual Fire/Explosion Hazard:SOME FLUXES & CHEM AIDS MAY GIVE OFF HYDROGEN CHLORIDE, PHOSGENE & CHLORINE GASES. CAN

S UNDER PRESS &

FLAMM MAY EXPLODE. METAL POWDER DUST MAY PRESENT (SUPDAT)

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

Spill Release Procedures:USE APPROPRIATE MEASURE TO KEEP AIRBORNE DUST LEVELS CONTAINED IN ACCORDANCE WITH EXPOSURE LEVELS OF INGREDIENTS.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:READ AND UNDERSTAND PRODUCT LABEL INFORMATION FOR PROPER PROCEDURES AND USE.

Other Precautions:SEE ANSI Z49.1 "SAFETY IN WELDING AND CUTTING", AND CHAPTER 11 OF "THERMAL SPRAYING", PUBLISHED BY AMERICAN WELDING SOCIETY AND OSHA PUBLICATION 2206 (29 CFR 1910) FOR MORE DETAIL.

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

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

Ventilation

:USE ADEQUATE VENTILATION TO KEEP BELOW EXPOSURE LIMITS.

Protective Gloves:WELDER'S GLOVES.

Eye Protection:WEAR HELMET/USE FACE SHIELD WITH(ING 18)

Other Protective Equipment:ANSI APPROVED EYE WASH & DELUGE SHOWER . WEAR HAND, HEAD & BODY PROT WHICH HELP TO PREVENT INJURY FROM RADIATION, (ING 21)

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EXPLO HAZ:FIRE/EXPLO HAZ UNDER FAVORABLE CONDITIONS OF PARTICLE SIZE DISPERSION & STRONG IGNITION SOURCE. THIS IS MOST PROBABLY REVALENT W/REACTIVE

METAL POWDERS SUCH AS ALUMINUM. HAZ DECOMPOSITION PRODUCTS:SILICA, OZONE, CO, CO<sub>2</sub>, NITROGEN OXIDES & CERTAIN INERT GASES. EXPLANATION OF CARCINOGENICITY:ANTICIPATED TO BE CARCINOGENIC TO HUMAN LUNGS, (ING 4)

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

Evaporation Rate & Reference:NOT KNOWN

Solubility in Water:NOT KNOWN

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

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

Stability Indicators

r/Materials to Avoid: YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid: WELDING ARC SPARKS AND FLAMES CAN IGNITE  
COMBUSTIBLES AND FLAMMABLES.

Hazardous Decomposition Products: DUSTS GIVEN OFF CANNOT BE CLASSIFIED  
SIMPLY. COMPLEX OXIDES OF METALS, FLUORIDES CMPDS METAL OXIDES  
CARBON AND (SUPDAT)

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

Waste Disposal Methods: DISPOSE OF WASTE MATL, POWDERS, GRINDING OR  
FILTER RESIDUES IN AN ENVIR SENSITIVE  
MANNER IN ACCORDANCE WITH  
EXPOSURE LEVELS OF INGREDIENTS.

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