

AMPCO METAL INC -- COPPER BASE ALLOY BARE WELDING RODS & WIRE (SUPPLEMENTAL) --  
3439-01-012-3283

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Product Identification  
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Product ID:COPPER BASE ALLOY BARE WELDING RODS & WIRE (SUPPLEMENTAL)

MSDS Date:03/16/1990

FSC:3439

NIIN:01-012-3283

MSDS Number: CFLDL

=== Responsible Party ===

Company Name:AMPCO METAL INC

Address:1745 S 38TH ST

Box:2004

City:MILWAUKEE

State:WI

ZIP:53201-2004

Country

:US

Info Phone Num:414-645-3750 / FAX 414-645-3225

Emergency Phone Num:414-645-3750

CAGE:03306

=== Contractor Identification ===

Company Name:AMPCO METAL INC

Address:1745 S 38TH ST

Box:2004

City:MILWAUKEE

State:WI

ZIP:53201-2004

Country:US

Phone:414-645-3750

CAGE:03306

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Composition/Information on Ingredients  
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Ingred Name:METALLIC MATERIAL, INGREDIENTS #2-9.

Fraction by Wt: SEE ING

Other REC Limits:NONE RECOMMENDED

Ingred Name:ALUMINUM (SARA 313)

CAS:7429-90-5

RTECS #:B

D0330000

Fraction by Wt: 0-20%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MG/M3 DUST

ACGIH TLV:10 MG/M3 DUST; 9596

Ingred Name:COBALT (SARA 313)

CAS:7440-48-4

RTECS #:GF8750000

Fraction by Wt: 0-3%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1 MG/M3

ACGIH TLV:0.02 MG/M3; A3; 9596

Ingred Name:COPPER (SARA 313) (CERCLA)

CAS:7440-50-8

RTECS #:GL5325000

Fraction by Wt: 50-100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1MG/M3 FUME/1 DUST

ACGIH TLV:0.2 MG/M3 FUME; 9596

EPA Rpt Qty:5000 LBS

DO

T Rpt Qty:5000 LBS

Ingred Name:IRON, IRON OXIDE FUME(Fe<sub>2</sub>O<sub>3</sub>) AS FE & IRON OXIDE DUST/FUME  
AS FE

CAS:7439-89-6

RTECS #:NO4565500

Fraction by Wt: 0-6%

Other REC Limits:NONE RECOMMENDED

Ingred Name:MANGANESE (SARA 313),DUST/FUME/COMPOUNDS

CAS:7439-96-5

RTECS #:OO9275000

Fraction by Wt: 0-14%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C, 5 MG/M3 (FUME)

ACGIH TLV:0.2 MG/M3; 9596

Ingred Name:NICKEL (SARA 313) (CERCLA) METAL,METAL & INSOLUBLE CMPDS AS  
NI

CAS:7440-02-0

RTECS #:QR5950000

Fracti

on by Wt: 0-32%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9596

Ingred Name:SILICON  
CAS:7440-21-3  
RTECS #:VW0400000  
Fraction by Wt: 0-1%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9596

Ingred Name:TIN, OXIDE AND INORGANIC CMPDS EXCEPT SNH4,AS SN  
CAS:7440-31-5  
RTECS #:XP7320000  
Fraction by Wt: 0-1%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9596

Ingred Name:COATING MATERIAL, INGREDIENTS #11-16.  
Fraction  
by Wt: SEE ING  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM METASILICATE  
CAS:6834-92-0  
RTECS #:VV9275000  
Fraction by Wt: 26.9%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:CRYOLITE (SODIUM ALUMINUM FLUORIDE) (AS FLUORIDE)  
CAS:15096-52-3  
RTECS #:WA9625000  
Fraction by Wt: 51%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:PETROLEUM COKE  
CAS:64743-05-1  
Fraction by Wt: 1.8%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:MAGNESITE  
CAS:546-93-0  
RTECS #:OM2470000  
Fraction by Wt: 5.1%  
Other R

EC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9596

Ingred Name:SILICA SAND  
CAS:112945-52-5  
RTECS #:VV7310000  
Fraction by Wt: 3.2%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:6 MG/M3  
ACGIH TLV:10 MG/M3

Ingred Name:FELDSPAR  
Fraction by Wt: 2.7%  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Ca  
rcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:NO CHEM HAZ FRM THESE ALLOY GRADES IN  
SOLID FORM.FL-HIGHLY IRRIT EYE/NOSE/THROAT,OVEREXPO ASSOC W/CUMULAT  
BONE DMG.LONG TERM SILICA EXPO ASSOC W/LUNG  
DISEASE(SILICOSIS).DEGREEE OF HAZ DEPEND UPON EXPO  
CONC/SIZE/LENGTH.SN:STANNOSIS.AL:CHRONIC EXPO-PULM FIB(BREATH  
DIFFI,COUGH,SHORTNESS OF BREATH,WHEEZ,RESP DIFF(SIGN/SYM)  
Explanation of Carcinogenicity:PER MSDS:NICKEL-NTP/IARC.  
Effects of Overexposure:  
HEALTH:IMPLICATED IN ALZHEIMERS  
DISEASE.CO:HYPERSENS TYP DERM,SER PNEUMOCONIOSIS.CU:METAL FUME  
FEVER,SKIN/HAIR DISCOLORAT,KERATINIZATION OF HAND/FT SOLE,IRRIT  
UPPER RESP TRACT,METALLIC TASTE,NAU,WILSON  
DISEASE,ANEMIA.FE:BENIGN PNEUMOCONIOSIS(SIDEROSIS).MN:INJURE  
CNS,FEVER,CHILL.MI:ALELRGIC DERM,SYST POIS.SI:PULM FIBROS  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYE:FLUSH

WELL W/RUNNING WATER TO REMOVE PARTICULATE.GET MED  
ATTN.SKIN:VACUUM OFF EXCESS DUST.WASH WELL W/SOAP/WATER.AVOID  
BLOWING PARTICULATE INTO ATMOSPHER.INHAL:REMOVE TO FRESH AIR.GET  
EMD ATTN.ING EST:SEEK MED ATTN IF LG QUANT OF MATL HAVE BEEN  
INGESTED.

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

Flash Point:NA  
Autoignition Temp:Autoignition Temp Text:NP  
Lower Limits:NA  
Upper Limits:NA  
Extinguishing Media:SEE FIRE-FIGHTING PROCEDURES & FIRE/EXPLO HAZARD

SECTIONS.

Fire Fighting Procedures:SOLID,MASSIVE FORM NOT COMBUST UNDER NORMAL  
CONDITIONS.USE FIRE FIGHT METHODS APPROPRIATE FOR SURROUNDING  
FIRE.FIREFIGHTERS SHOULD WEAR SCBA,PROTECTIVE CLOTHING  
Unusual Fire/Explosion Hazard:SM CHIPS,FINE TURNINGS,DUST MAY IGN  
READILY.USE COARS H20SPRAY ON CHIPS/TURNING/ETC.USE CLASS D EXTING  
AGENTS OR DRY SAND ON FINES.DONT USE HALOGENATED (SUPPLE)

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

Spill Release Procedures:N  
O SPECIAL PRECAUT NECESSARY FOR SPILL OF BULK  
MATL.IF LG QUANT OF DUST SPILL REMOVE BY VACUUMING OR WET SWEEPING  
TO PREVNET HEAVY CONC OF AIRBORNE DUST.FOLLOW FED/STATE/LOC REGS  
CONCERNING DISPOSAL O F WASTE.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE MATL AWAY FROM INCOMPATIBLE  
MATLS.KEEP DUST FROM SOURCES OF IGN.  
Other Precautions:USE OF THESE WELDING RODS MAY CR  
EATE FUMES IN  
BREATHING ZONES OF WORKERS.BE CERTAIN TO EVALUATE LEVELS OF METALS  
FUMES FOR THESE WORKERS & ALWAYS USE APPROVED(NIOSH)RESP WHERE  
NECESSARY.

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

Respiratory Protection:COAT DECOMPO DURING WELD PROCESS SHOULDNT PROD  
LEVELS AMTS >PEL;IF USE IN IMPROP VENTI/EXHAU AREAS SHOULD GENERATE  
FUME/VAP/DUST USE APPROV NIOSH RESP ONLY.EXPO >PEL/TLV NIOSH APPRO  
RES FOR FUME/DUST DEPENDENT UPON AIRBORN CONT

AM SOURCE.

Ventilation:REQUIRED IF DUST/FUNE CREATED IN HDNLTG/WORK ON THIS  
MATL.LOC EXHAU:REQUIRID IF DUST/FUME CREATED IN HNDLTG/WORK ON  
(SUPP)

Protective Gloves:REQUIRE FOR WELD OPS;SELECT FOR SPEC OPS

Eye Protection:REQUIRE FOR WELD;MIN-FCHSIELD,WELD HELMT

Other Protective Equipment:USE LEATHER OR EQUIAL PROTECTIVE GLVOES &  
BODY CLOTH WHILE WELDING.

Work Hygienic Practices:USE EAR MUFFS OR PLUGS IF NOISE LEVEL IS  
>90DBA.

Supplemental Safety and Health

AMPCO-TRODE ALLOY #S:10,15

0,200,250,300,350,40,46. FIRE/EXPLO

HAZ:AGENTS ON SM CHIPS/FINES.DUST CLOUDS MAY BE EXPLO.PREVENT  
FORMATION OF DUST CLOUD.MOLTEN METAL ALLOYS MAY EXPLO ON CONTACT  
W/H2O,MAY R EACT VIOL W/H2O,RUST & CERTAIN METAL OXIDES(CU,FE,PB).

VENTI:MATL.MECH(GEN):AS ABOVE TO REDUCE AIRBONRE DUST/FUME LEVELS

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

HCC:V7

Boiling Pt:B.P. Text:NP

Melt/Freeze Pt:M.P/F.P Text:NA

Decomp Temp:Decomp Text:NP

Vapor Pres:NA

Vapor Density:

NA

Spec Gravity:NA

pH:NP

Viscosity:NP

Evaporation Rate & Reference:NA

Solubility in Water:INSOLUBLE

Appearance and Odor:SILVER/GREY,YELLOW OR REDDISH COLOR WITH NO ODOR

Percent Volatiles by Volume:NA

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

AVOID COTNACT OF FINELY DIVIDED MATL

W/HEAT,OXIDIZERS,ACIDS,ALKALIES,MOLTEN LITHIUM,HALOGENATED  
CMPDS.ACIDS,BASES,OXIDIZ

Stability Condition to Avoid:MOLTEN

METAL RX VIOL W/H2O.

Hazardous Decomposition Products:INCOMPLETE COMBUST MAY PRODUCE  
CO/CO2,ODOLRESS COLORELSS GASES WHICH ARE ASPHYXIANTS.METAL FUME.

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

Waste Disposal Methods:DISPO OF IAW FED/STATE/LOC REGS.CLEANUP  
PERSONNEL SHOULD WEAR RESP/PROT CLOTH.NONE OF COATING INGRED SUBJ  
TO REPORTING REQ TMS OF SEC 313 TITLE III SARA/40CFR372;HOWEVER SOME  
METAL INGRED S SUBJ TO THIS REQMT.

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