

AMPCO METAL INC -- COPPER BASE ALLOY BARE WELDING RODS & WIRE (SUPPLEMENTAL) --  
3439-00-902-4212

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

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

MSDS Date:03/16/1990

FSC:3439

NIIN:00-902-4212

MSDS Number: CFLDD

=== Responsible Party ===

Company Name:AMPCO METAL INC

Address:1745 S 38TH ST

Box:2004

City:MILWAUKEE

State:WI

ZIP:53201-2004

Countr

y: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

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

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 #:

BD0330000  
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  
D  
OT 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  
Fract

ion 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

REC 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 C  
arcinogenicity: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:FLUS

H 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:  
NO 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 C  
REATE 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 CON

TAM SOURCE.

Ventilation:REQUIRED IF DUST/FUNE CREATED IN HDNLTG/WORK ON THIS  
MATL.LOC EXHAU:REQUIRID IF DUST/FUME CREATED IN HNDLG/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:10,1

50,200,250,300,350,40,46. 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.

Disclaimer (provided with thi  
s 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.