

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

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

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 =====

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(Fe₂O₃) 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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