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AMPCO METAL INC -- COPPER BASE ALLOY BARE WELDING RODS & WIRE (SUPPLEMENTAL) -- 3439-01-022-0307

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

Product ID:COPPER BASE ALLOY BARE WELDING RODS & WIRE (SUPPLEMENTAL)
MSDS Date:03/16/1990
FSC:3439
NIIN:01-022-0307
MSDS Number: CFLDP
=== 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, INGREDS #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(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
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, INGREDS #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,WILSO N 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 HDNLG/WORK ON THIS MATL.LOC EXHAU:REQURIED 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 REQTMS OF SEC 313 TITLE III SARA/40CFR372;HOWEVER SOME METAL INGREDS SUBJ TO THIS REQMT.

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s information by the compiling agencies):
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