

ALCOTEC WIRE CO SUB OF ALCOA WELD WIRE INC. -- WELDING WIRE, ALLOY 2319 --
3439-00-254-5030

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

Product ID:WELDING WIRE, ALLOY 2319
MSDS Date:06/03/1992
FSC:3439
NIIN:00-254-5030
MSDS Number: BXPTB
=== Responsible Party ===
Company Name:ALCOTEC WIRE CO SUB OF ALCOA WELD WIRE INC.
Address:2750 AERO PARK DR.
Box:1320
City:TRAVERSE CITY
State:MI
ZIP:49685
Country:US
Info Phone Num:616-941-4111 / 616-941-9154 (FAX)
Emergency Phone Nu
m:616-941-4111 / 412-553-4001
Preparer's Name:STEPHEN L. ANDERSON,PATNR
CAGE:7Z608

=== Contractor Identification ===

Company Name:ALCOTEC WIRE CO SUB OF ALCOA WELD WIRE INC.
Address:2750 AERO PARK DR.
Box:1320
City:TRAVERSE CITY
State:MI
ZIP:49686
Country:US
Phone:412-553-4649; 616-941-4111
CAGE:7Z608

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

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 0.20%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3

TDUST
ACGIH TLV:10 MG/M3 TDUST; 9495

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 0.30%
Other REC Limits:NONE RECOMMENDED

Ingred Name:COPPER (SARA 313) (CERCLA)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 5.8-6.8%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2 MG/M3 FUME; 9495
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:MANGANESE (SARA 313)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: .20-.40%
Other REC Limits:NONE RECOMMENDED
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OSHA PEL:C 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9495

Ingred Name:MAGNESIUM
CAS:7439-95-4
RTECS #:OM2100000
Fraction by Wt: 0.02%
Other REC Limits:NONE RECOMMENDED

Ingred Name:ZINC (SARA 313) (CERCLA)
CAS:7440-66-6
RTECS #:ZG8600000
Fraction by Wt: 0.10%
Other REC Limits:NONE RECOMMENDED
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:TITANIUM
CAS:7440-32-6
RTECS #:XR1700000
Fraction by Wt: .10-.20%
Other REC Limits:NONE RECOMMENDED

Ingred Name:OTHERS, EACH (INCLUDING BERYLLIUM INGRED

#9, VANADIUM
INGRED #10, ZINCONIUM INGRED #11) (TOTAL:0.15%)
Fraction by Wt: 0.05%
Other REC Limits:NONE RECOMMENDED

Ingred Name:BERYLLIUM (SARA 313) (CERCLA) SHALL NOT EXCEED 0.0008%.
CAS:7440-41-7
RTECS #:DS1750000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.002 MG/M3, Z-2
ACGIH TLV:.002 MG/M3, A2; 9495

Ingred Name:VANADIUM (SARA 313)
CAS:7440-62-2
RTECS #:YW1355000
Fraction by Wt: .05-.15%
Other REC Limits:NONE RECOMMENDED

Ingred Name:ZIRCONIUM
CAS:7440-67-7
RTECS #:ZH7070000
Fraction
by Wt: .10-.25%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3
ACGIH TLV:5 MG/M3/10 STEL;9495

Ingred Name:ALUMINIUM
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: BALANCE
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:WELDING FUMES,INTENSE ULTRAVIOLET
RADIATION,WELDING ARCS CAUSES HEA
LTH HAZ.MUC
MEMB/PULM/EYES/NOSE/THROAT/SKIN IRRIT,PULM
CHANGES,CONGESTION,EDEMA,FLASH BURNS TO EYES/SKIN.FORMATION OF
METHEMOGLOBIN & SUBSEQUENT ACTION ON CNS FRM NITRIC OXIDE.INHAL
>100PPM NITROGEN MONOXIDE CAN BE FATAL.CR CMPDS:NASAL/LUNG
CANCER.(SUP)
Explanation of Carcinogenicity:PER MSDS:WELDING FUMES,NICKEL,HEXAVALENT
CHROMIUM CMPDS,BERYLLIUM CMPDS,LEAD,
Effects of Overexposure:IRRIT OF EYE/SKIN/NOSE/THROAT/RESP TRACT.GI
DISTURBANCES.EYE/SKIN FLASH BURNS,CNS EF

FECTS,METAL FUME
FEVER,METALLIC TASTE,LOSS OF SLEEP,APPETITE
LOSS,TIREDENSS,IRRITABILITY.PNEUMONITIS(INFLAMM OF LUNG
TISS),BERYLLIOSIS(PROGRESSIVE LUNG
DISEASE),NEUROPATHY,ANEMIA,CHROMOSOMAL CHANGES.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHAL:IMMED REMOVE TO FRESH AIR. BREATH STOPPED PROVIDE
OXYGEN & RESPIRATION. CONSULT PHYSICIAN. SKIN/EYES:IRRITATION
DEVELOPS
CONSULT PHYSICIAN.

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

Extinguishing Media:USE CLASS D EXTINGUISHING AGENTS OR DRY SAND ON
FIRES.
Fire Fighting Procedures:USE COARSE WATER SPRAY ON
CHIPS/TURNINGS/ETC.DO NOT USE HALOGENATED EXTINGUISHING AGENTS ON
SM CHIPS/FINES.
Unusual Fire/Explosion Hazard:DOES NOT PRESENT FIRE/EXPLO HAZ UNDER
NORMAL CONDITIONS.SM CHIPS/FINE TURNINGS/DUST MAY IGN READILY.DUST
CLOUDS MAY BE EXPLOSIVE;PREVENT FORMATION OF D
UST CLOUD

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

Spill Release Procedures:COLLECT SCRAP FOR REMELTING.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:WHERE EXPO LIMIT IS OR MAY BE EXCEEDED USE NIOSH
APPROVED RESP PROTECTION. SELECT AP
PROPRIATE RESP (FUME RESP,HIGH
EFFICIENCY DUST & FUME RESP,SUPPLIED-AIR RESP,ETC)BASED ON CONCEN
OF ACTUAL OR POTENT IAL AIRBORNE CONTAMINANTS PRESENT.
Ventilation:USE W/ADEQUATE VENTILATION TO MEET EXPO LIMITS.FUMES/DUST
PROVIDE GEN/LOC EXHA VENTI TO MEET BE PEL REQMTS.
Protective Gloves:AS REQUIRED FOR WELDING.
Eye Protection:AS REQUIRED FOR WELDING.
Other Protective Equipment:WELDERS SHOULD USE APPROPRIATE EQPMT.REFER
TO OSHA 29CFR1910.252.REFER TO 29CFR1910.1025 FOR INDUST HY

G STD
FOR PB HNDLG

Work Hygienic Practices:ADVISE PERSONNEL ASSIGNED TO LAUNDER BE
CONTAMIN CLOTH OF HAZ.PRACTICE GOOD PERSONAL HYGIENE.

Supplemental Safety and Health

DENSITY:0.1LB/IN3. HEALTH HAZ:COPPER:NAU,METAL FUME FEVER,RESP TRACT
IRRIT.NICKEL DUST/FUME:PNEUMOCONIOSIS,CANCER.BERYLLIUM:TOXIC BY
INHAL,PNEUMONITIS,BERYLLIOSIS,SYSTEMIC BERYLLIUM DISEASE.LEAD:NEURO
PATHY,GI DISTURB,ANEMIA,CHROMOSOMAL CHANGES.

===== Physical/Chemical Properties =====
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HCC:N1
Melt/Freeze Pt:M.P/F.P Text:970F,521C
Solubility in Water:NONE
Appearance and Odor:SILVERY COLOR, SOLID WELDING ELECTRODE, NO ODOR.

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

Stability Indicator/Materials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.
Stability Condition to Avoid:PREVENT FORMATION OF DUST CLOUD.
Hazardous Decomposition Products:OZONE, OXIDES OF NITROGEN. HEXAVALENT
CHROMIUM CMPDS,

===== Disposal Considerations =====
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Waste Disposal Methods:IF MATL IS TO BE DISPOSED TCLP LEACHATE TESTING
FOR CHROMIUM & REACTIVITY, EXPLOSIVE SUCATEGORY TESTING IS
RECOMMENDED TO DETERMINED IF WASTE IS RCRA HAZ.

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