

ALCOTEC WIRE CO SUB OF ALCOA WELD WIRE INC. -- WELDING WIRE, ALLOY 4643 --
3439-00-254-5030

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

Product ID:WELDING WIRE, ALLOY 4643
MSDS Date:06/03/1992
FSC:3439
NIIN:00-254-5030
MSDS Number: BXPTG
=== 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: 3.6-4.6%
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: 0.8%
Other REC Limits:NONE RECOMMENDED

Ingred Name:COPPER (SARA 313) (CERCLA)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 0.10%
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: 0.05%
Other REC Limits:NONE RECOMMENDED
OS
HA 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: .10-.30%
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: 0.15%
Other REC Limits:NONE RECOMMENDED

Ingred Name:OTHERS, EACH (INCLUDING BERYLLIUM INGRED #9)

(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:ALUMINUM (SARA 313)
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: BALANCE
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 DUST
ACGIH TLV:10 MG/M3 DUST; 9495

===== Hazards Identification =====
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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 HEALTH 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 EFFECTS,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 MAN

UFACTURER.

===== 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 DUST 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 APPROPRIATE 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 PE L 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 HYG 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:PN

EUMOCOONIOSIS,CANCER.BERYLLIUM:TOXIC BY
INHAL,PNEUMONITIS,BERYLLIOSIS,SYSTEMIC BERYLLIUM DISEASE.LEAD:NEURO
PATHY,GI DISTURB,ANEMIA,CHROMOSOMAL CHANGES.

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

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 =====

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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