

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

Inf

o Phone Num:616-941-4111 / 616-941-9154 (FAX)

Emergency Phone Num: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 b

y 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 #:OO92  
75000  
Fraction by Wt: 0.05%  
Other REC Limits:NONE RECOMMENDED  
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: .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 RECOMM

ENDED

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; 949

5

=====  
===== 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 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 NIT

ROGEN 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 CH

ANGES.

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 DUST CLOUD

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

Spill Release Procedures:COLLECT SCRAP FOR REMELTING.

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

Handli

ng 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 POTENTIAL 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 HYG STD FOR PB HNDLG

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

Supplemental Safety and Health

DENSITY:0.1LB/IN<sup>3</sup>. HEALTH HAZ:COPP

ER: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 =====

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.

Disclaimer

(provided with this 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.