

ALCOTEC WIRE CO SUB OF ALCOA WELD WIRE INC. -- WELDING WIRE, ALLOY 5654 --  
3439-00-254-5030

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

Product ID:WELDING WIRE, ALLOY 5654  
MSDS Date:06/03/1992  
FSC:3439  
NIIN:00-254-5030  
MSDS Number: BXPTN  
=== 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  
In  
fo 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

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

Ingred Name:MIXTURE OF SILICON (CAS#:7440-21-3) PLUS IRON

(CAS#:7439-89-6)  
Fraction by Wt: 0.45%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:COPPER (SARA 313) (CERCLA)  
CAS:7440-50-8  
RTECS #:GL5325000  
Fraction by Wt: 0.05%  
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: 0.01%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C 5 MG/M3 DUST

M  
CAS:7439-95-4  
RTECS #:OM2100000  
Fraction by Wt: 3.1-3.9%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:CHROMIUM (SARA 313) (CERCLA)  
CAS:7440-47-3  
RTECS #:GB4200000  
Fraction by Wt: .15-.35%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:0.5 MG/M3; 9495  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:ZINC (SARA 313) (CERCLA)  
CAS:7440-66-6  
RTECS #:ZG8600000  
Fraction by Wt: 0.20%  
Other REC Limits:NONE RECOMMENDED  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:TITANIUM  
CAS:744  
0-32-6  
RTECS #:XR1700000  
Fraction by Wt: .05-.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 R

EC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 DUST  
ACGIH TLV:10 MG/M3 DUST; 9495

===== 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  
ME  
THEMOGLOBIN & 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,TIREDESS,IRRITABILITY.PNEUMONITIS(INFLAMM OF LUNG  
TI  
SS),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 EXTINGUIS  
HING 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

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

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

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===== 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 AIR BORNE CONTAMINANTS PRESENT.

Ventilation:USE W/ADEQUATE VENTILATION TO MEET EXPO LIMITS.FUMES/DUST PROVIDE GEN/LOC EXHA VENTI TO MEET 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: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.

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===== 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.

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===== 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 COMPOUNDS,

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===== Disposal Considerations =====

Waste Disposal Methods:IF MATERIAL IS TO BE DISPOSED TCLP LEACHATE TESTING FOR CHROMIUM & REACTIVITY, EXPLOSIVE SURVEY

RY TESTING IS

RECOMMENDED TO DETERMINED IF WASTE IS RCRA HAZ.

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