

ALCOTEC WIRE CO SUB OF ALCOA WELD WIRE INC. -- WELDING WIRE, ALLOY 5554 --
3439-00-254-5030

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

Product ID:WELDING WIRE, ALLOY 5554

MSDS Date:06/03/1992

FSC:3439

NIIN:00-254-5030

MSDS Number: BXPTL

=== 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

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

Ingred Name:SILICON

CAS:7440-21-3

RTECS #:VW0400000

Fraction

by Wt: 0.25%
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: 0.40%
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 #:OO927
5000
Fraction by Wt: .50-1.0%
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: 2.4-3.0%
Other REC Limits:NONE RECOMMENDED

Ingred Name:CHROMIUM (SARA 313) (CERCLA)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: .05-.20%
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: 0.25%
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: .05-.20%
Other REC Limits:NONE RECOMMENDED

Ingred Name:OTHERS, EACH (INCLUDING BERYLLIUM INGRED #10) (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: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 HEALTH HAZ.MUC
MEMB/PULM/EYES/NOSE/THROAT/SKIN IRRIT,PUL

M
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,A

PPETITE

LOSS, TIREDNESS, IRRITABILITY, PNEUMONITIS (INFLAMMATION OF LUNG TISSUE), BERYLLIOSIS (PROGRESSIVE LUNG DISEASE), NEUROPATHY, ANEMIA, CHROMOSOMAL CHANGES.

Medical Condition Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

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

First Aid: INHALATION: IMMEDIATELY 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 SMALL CHIPS/FINES.

Unusual Fire/Explosion Hazard: DOES NOT PRESENT FIRE/EXPLOSION HAZARD UNDER NORMAL CONDITIONS. SMALL CHIPS/FINE TURNINGS/DUST MAY IGNITE 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 EXPOSURE LIMIT IS OR MAY BE EXCEEDED USE NIOSH APPROVED RESPIRATORY PROTECTION. SELECT APPROPRIATE RESPIRATOR (FUME RESPIRATOR, HIGH EFFICIENCY DUST & FUME

RESPIRATOR, SUPPLIED-AIR RESPIRATOR, ETC) BASED ON CONCENTRATION OF ACTUAL OR POTENTIAL AIRBORNE CONTAMINANTS PRESENT.

Ventilation: USE WHERE ADEQUATE VENTILATION TO MEET EXPOSURE LIMITS. FUMES/DUST PROVIDE GENERAL/LOCAL EXHAUSTION TO MEET BEST PRACTICES REQUIREMENTS.

Protective Gloves: AS REQUIRED FOR WELDING.

Eye Protection: AS REQUIRED FOR WELDING.

Other Protective Equipment: WELDERS SHOULD USE APPROPRIATE EQUIPMENT. REFER TO OSHA 29CFR 1910.252. REFER TO 29CFR 1910.1025 FOR INDUSTRIAL HYGIENE STANDARD FOR PULVERIZED HANDLING

Work Hygienic Practices: ADVISE PER

SONNEL 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 =====

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:970F,521C

Solubil

ity 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 DISPO

SED 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 shoul

d seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.