

ALCOTEC WIRE CO SUB OF ALCOA WELD WIRE INC. -- WELDING WIRE, ALLOY 4145 --
3439-00-254-5030

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

Product ID:WELDING WIRE, ALLOY 4145

MSDS Date:06/03/1992

FSC:3439

NIIN:00-254-5030

MSDS Number: BXPTF

=== 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, 9.3-10.7%.

CAS:7440-21-3

RTECS #:VW0400000

Fraction by Wt: SEE ING

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: 3.3-4.7%
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: 0.15%
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: 0.15%
Other REC Limits:NONE RECOMMENDED

Ingred Name:CHROMIUM (SARA 313) (CERCLA)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 0.15%
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 RECO

MMENDED
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

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===== 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 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 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 CHIP

S/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 Prec

autions: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 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 LAUNDER BE CONTAMIN CLOTH OF HAZ.PRACTICE GOOD PERSONAL HYGIENE.

Supplemental Safety and Health

DENSITY:0.1LB/IN3. HEALTH HAZ:COPPER:NAU,METAL FUME F

EVER,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 Indic

ator/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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