

ALCOTEC WIRE CO SUB OF ALCOA WELD WIRE INC. -- WELDING WIRE AND METALLIZING WIRE --
3439-00-803-9492

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

Product ID:WELDING WIRE AND METALLIZING WIRE

MSDS Date:02/24/1998

FSC:3439

NIIN:00-803-9492

Status Code:A

MSDS Number: CKPHL

=== 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:412-553-4649; 616-94

1-4111

Emergency Phone Num:412-553-4001

Chemtrec Ind/Phone:(800)424-9300

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

Company Name:THERMION METALIZING SYSTEMS

Address:10331 CENTRAL VALLEY RD NW

City:POULSBO

State:WA

ZIP:98370

Country:US

Phone:360-692-6656

CAGE:1ES73

===== Composition/Information on Ingr

edients =====

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
= Wt:.25
OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/M3

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
= Wt:.4

Ingred Name:COPPER
CAS:7440-50-8
RTECS #:GL5325000
= Wt:.1
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:MANGANESE
CAS:7439-96-5
RTECS #:OO9275000
Minumum % Wt:.05
Maxumum % Wt:.2
OSHA PEL:C5 MG/M3
ACGIH TLV:5 MG/M3

Ingred Name:MAGNESIUM
CAS:7439-95-4
RTECS #:OM2100000
Minu
mum % Wt:4.5
Maxumum % Wt:5.5

Ingred Name:CHROMIUM
CAS:7440-47-3
RTECS #:GB4200000
Minumum % Wt:.05
Maxumum % Wt:.2
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:ZINC
CAS:7440-66-6
RTECS #:ZG8600000
= Wt:.1
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:TITANIUM
CAS:7440-32-6
RTECS #:XR1700000
Minumum % Wt:.06

===== Hazards Identification =====

Reports of Carcinogenicity:NTP:YES IARC:YES

Health Hazards Acute and Chronic:POTENTIAL HEALTH EFFECTS: EYES-FUMES CAN CAUSE IRRITATION. ULTRAVIOLET RADIATION FROM WELDING CAN CAUSE FLASH BURNS. SKIN-CAN CAUSE IRRITATION. ULTRAVIOLENT RADIATION FROM WELDING CAN CAUSE FLASH BURN S. INHALATION-CAN CAUSE RESPIRATORY TRACT IRRITATION, METAL FUME FEVER, AND OTHER HEALTH EFFECTS. CANCER HA

ZARD. ALUMINUM IS WELDED IN A PROTECTIVE, INERT ATMOSPHERE SUCH AS ARGON OR HELIUM USING THE MIG OR TIG PROCESS. WLEDING PROCESSES GENERATE WELDING FUMES & AN INTENSE ULTRAVIOLET RADIATION WHICH RESULTS IN THE FORMATION OF OZONE & OXIDES OF NITROGEN. ULTRAVIOLET RADIATION FROM WELDING CAN CAU SE FLASH BURNS TO THE EYES & SKIN.

Explanation of Carcinogenicity:WELDING FUMES ARE CARCINOGENIC AND ARE LISTED AS AN IARC GROUP 2B.

Effects of Overexposure:EXPOSURE TO LOW LEVELS O F OZONE CAN CAUSE

IRRITATION OF THE EYES, NOSE & THROAT. INHALATION CAN CAUSE CHEST TIGHTNESS, HEADACHE, SHORTNESS OF BREATH, COUGH, WHEEZE, NAUSEA & NARROWING OF AIRWAYS. SYMP TOMS DISAPPEAR WHEN REMOVED FROM EXPOSURE. EXPOSURE TO HIGH LEVELS OF OZONE MAY CAUSE ACUTE RESPIRATORY DISTRESS WITH SHORTNESS OF BREATH, PULMONARY CHANGES, HEMORRHAGE & PULMONARY EDEMA. SYMPTOMS OF PULMONARY EDEMA MAY BE DELAYED FOR ONE OR MORE HOUR. EXPOSURE OF TEST ANIMALS & HUMAN TISS

UE TO HIGH CONCENTRATIONS HAS SHOWN CHROMOSOMAL CHANGES, REPRODUCTIVE EFFECTS, BLOOD CHANGES & DEATH FROM LUNG CONGESTION.

Medical Cond Aggravated by Exposure:CHRONIC LUNG DISEASE, SKIN RASHES, AND ASTHMA.

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

First Aid:EYES: FLUSH WITH PLENTY OF WATER OR SALINE FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN. SKIN: WASH THOROUGHLY WITH SOAP AND WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN IF IRRITATION PE

RSISITS. INHALATION: REMOVE TO FRESH AIR. CHECK FOR CLEAR AIRWAY, AND PRESENCE OF PULSE. PROVIDE CPR FOR PERSONS WITHOUT PULSE OR RESPIRATION. CONSULT PHYSICIAN IMMEDIATELY.

===== Fire Fighting Measures =====

Extinguishing Media:USE FIREFIGHTING METHOD & MATERIAL THAT ARE APPROPRIATE FOR SURROUNDING FIRE. USE COARSE WATER SPRAY ON CHIPS & TURNING. FOR FINES, DUST OR MOLTEN ALUMINUM, USE CLASS D EXTINGUISHER.

Fire Fighting Procedures:FIREFIG

HTERS SHOULD WEAR NIOSH APPROVED

POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING WHEN APPROPRIATE. DO NOT USE: HALOGENATED EXTINGUISHING AGENTS ON SMALL CHIPS/FI NES. DO NOT USE WATER IN FIGHTING FIRES AROUND MOLTEN ALUMINUM.

Unusual Fire/Explosion Hazard:MAY BE A POTENTIAL HAZARD UNDER FOLLOWING CONDITION: DUST OR FINES DISPERSED IN THE AIR CAN BE EXPLOSIVE. CHIPS, FINES AND DUST IN CONTACT WITH WATER CAN GENERATE FLAMMABLE/EXPLOSIVE H

YDROGEN GAS. THE SE GASES COULD PRESENT AN

EXPLOSION HAZARD IN CONFINED OR POORLY VENTILATED SPACES.

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

Spill Release Procedures:IF MOLTEN: CONTAIN THE FLOW USING SAND OR SALT FLUX AS A DAM. DO NOT USE SHOVELS OR HAND TOOLS TO HALT THE FLOW OF MOLTEN ALUMINUM. ALLOW THE SPILL TO COOL BEFORE REMELTING AS SCRAP.

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

Handling and Storage Precautions:PRODUC

T SHOULD BE KEPT DRY. AVOID

GENERATING DUST. AVOID CONTACT WITH SHARP EDGES OR HEATED METAL. HOT AND COLD ALUMINUM ARE NOT VISUALLY DIFFERENT.

Other Precautions:SAMPLING TO ESTABLISH LEAD LEVEL EXPOSURE IS ADVISED WHERE EXPOSURE TO AIRBORNE PARTICULATE OR FUMES IS POSSIBLE.

CONSULT OSHA LEAD STANDARD 29 CFR 1910.1025 FOR SPECIFIC HEALTH/INDUSTRIAL HYGIENE PRE CAUTIONS AND REQUIREMENTS TO FOLLOW WHEN HANDLING LEAD COMPOUNDS.

===== Exposure Controls/Personal Prote

ction =====

Respiratory Protection:USE NIOSH APPROVED RESPIRATORY PROTECTION [DUST, FUME, HIGH EFFICIENCY DUST/FUME MASK FOR LEAD, OR OTHER(ORGANIC VAPOR)] AS SPECIFIED BY AN INDUSTRIAL HYGIENIST OR OTHER QUALIFIED PROFESSIONAL. (IF C ONCENTRATIONS EXCEED THE LIMITS LISTED IN INGREDIENTS.

Ventilation:USE WITH ADEQUATE EXPLOSION PROOF VENTILATION TO MEET ESTABLISHED LIMITS.

Protective Gloves:WEAR IMPERVIOUS GLOVES TO AVOID ANY SKIN INJURY.

Eye Protection:WELDERS SHO

ULD USE APPROPRIATE EQUIPMENT TO PREVENT FLASH BURNS

Other Protective Equipment:WELDERS SHOULD USE APPROPRIATE EQUIPMENT (E.G. WELDER'S HELMET, FACE SHIELD, FILTER LENS) TO PREVENT EYE IRRITATION OR FLASH BURNS.

Work Hygienic Practices:PERSONNEL ASSIGNED TO LAUNDER BERYLLIUM CONTAMINATED CLOTHING SHOULD BE ADVISED OF BERYLLIUM'S PRESENCE AND POTENTIAL HEALT EFFECTS.

Supplemental Safety and Health

ALLOY:5356. WELDING OR CUTTING OPERATIONS INVOLVING BERYLLIUM-CONTAINING BASE

OR FILLER METAL SHALL BE DONE USING LOCAL

EXHAUST VENTILATION & AIRLINE RESPIRATORS UNLESS ATMOSPHERIC TESTS UNDER THE MOS T ADVERSE CONDITIONS HAVE SHOWN THAT THE WORKERS EXPOSURES IS WITHING ACCEPTABLE LEVELS AS DEFINED BY 29CFR1910.1000.

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

HCC:N1

Melt/Freeze Pt:M.P/F.P Text:970-1215F; 521-657C

Spec Gravity:N/D

Solubility in Water:NONE

Appearance and Odor:ODORLESS SOLID

===== Stability and React
ivity Data =====

Stability Indicator/Materials to Avoid:YES

CHIPS, FINES, DUST & MOLTEN ALUMINUM REACT WITH: WATER, HEAT, STRONG OXIDIZERS, ACIDS & ALKALIS, HALOGENATED COMPOUNDS, IRON OXIDE (RUST) & OTHER METAL OXIDES, IRON POWDER.

Stability Condition to Avoid:STABLE UNDER NORMAL CONDITIONS OF USE, STORAGE, AND TRANSPORTATION AS SHIPPED.

===== Toxicological Information =====

Toxicological Information:LD50 OR LC50 FOUND FOR ORAL, DERMAL O

R

INHALATION ROUTE OF ADMINISTRATION: NICKEL: ORAL RAT LD50: 9000 MG/KG BODY WEIGHT. SILICON: ORAL RAT LD50: 3160 MG/KG BODY WEIGHT. MANGANESE: ORAL RAT LD50: 9000 MG/KG BODY WEIGHT. IRON: INTRAPERITONEAL RABBIT LDLO: 20 MG/KG - NO TOXIC EFFECT NOTED.

===== Ecological Information =====

Ecological:NOT AVAILABLE.

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

Waste Disposal Methods:COLLECT SCRAP FOR REMELTING AND RECYCLING
. TO
MAINTAIN METAL PURITY, IT MAY BE DESIRABLE TO SEGREGATE THIS SCRAP FROM OTHER ALLOYS. RCRA STATUS: CHARACTERIZE IN ACCORDANCE WITH 40 CFR 261 OR STATE EQUIVALENT.

===== MSDS Transport Information =====

Transport Information:U.S.A. DOT: NOT REGULATED ` ENTER THE PROPER FREIGHT CLASSIFICATION, "MSDS NUMBER", AND "PRODUCT NAME" ON THE SHIPPING WORK. CANADIAN TDG HAZARD CLASS & PIN: NOT REGULATED.

===== Regulatory Information =====

SARA Title III Information:SECTION 311/312 PHYSICAL AND HEALTH HAZARD CATEGORIES: IMMEDIATE (ACUTE), DELAYED (CHRONIC) IF PARTICULATES/FUMES ARE GENERATED DURING PROCESSING. SECTION 313 TOXIC CHEMICALS: ALUMINUM (FUME/DUST), BERYLLIUM, CHROMIUM, COPPER, LEAD, MANGANESE, NICKEL, VANADIUM (FUME/DUST), AND ZINC (FUME/DUST).

Federal Regulatory Information:TSCA STATUS: ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. CERCLA HAZARDOUS SUBSTANCES: BERYLLIUM, CHROMIUM COMPOUNDS, COPPER, LEAD, MANGANESE, NICKEL, ZINC.

State Regulatory Information:PENNSYLVANIA "SPECIAL HAZARDOUS SUBSTANCE": BERYLLIUM, NICKEL, CHROMIUM COMPOUNDS, HEXAVALENT. CALIFORNIA PROPOSITION 65: CHROMIUM (HEXAVALENT COMPOUNDS), BERYLLIUM AND NICKEL ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. LEAD IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE TOXICITY.

===== Other Information =====

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assume responsibility for the suitability of this information to t
heir
particular situation.