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ALCOTEC WIRE CO SUB OF ALCOA WELD WIRE INC. -- WELDING WIRE AND METALLIZING WIRE -- 3439-00-803-9491
========== Product Identification ==========

Product ID:WELDING WIRE AND METALLIZING WIRE
MSDS Date:02/24/1998
FSC:3439
NIIN:00-803-9491
Status Code:A
MSDS Number: CKPHM
=== 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; 616-941-4111
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:360-69

2-6656
CAGE:1ES73

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

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
Minumum % 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

7429-90-5
RTECS #:BD0330000
Fraction by Wt: RMND
OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/M3

========== 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 IRRI
TATION, METAL FUME FEVER, AND OTHER HEALTH EFFECTS. CANCER HAZARD. 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 A
N IARC GROUP 2B.
Effects of Overexposure:EXPOSURE TO LOW LEVELS OF 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 DELAYE
D FOR ONE OR MORE HOUR. EXPOSURE OF TEST ANIMALS & HUMAN TISSUE 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 PERSISITS. 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 ALUMINU
M, USE CLASS D
EXTINGUISHER.
Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR NIOSH APPROVED POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING WHEN APPROPIATE. 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 HYDROGEN 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:PRODUCT 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 Protection ==========

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 IMPER
VIOUS GLOVES TO AVOID ANY SKIN INJURY.
Eye Protection:WELDERS SHOULD USE APPROPRIATE EQUIPMENT TO PREVENT FLASH BURNS
Other Protective Equipment:WELDERS SHOULD USE APPROPIATE 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. WELD
ING 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
Appearanc
e and Odor:ODORLESS SOLID

========== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES
CHIPS, FINES, DUST & MOLTEN ALUMINUM REACT WITH: WATER, HEAT, STRONG OXIDIZERS, ACIDS & ALKALIS, HALOGENTATED 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 OR 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 PUNITY, IT MAY BE DESIRABLE TO SEGREGATE THIS SCRAP FROM OTHER ALLOYS. RCRA STATUS: CHARACTERIZE IN ACCORDANCE WITH 40 CFR 261 OR STATE EQU IVALENT.

========== 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), BE RYLLIUM, CHROMIUM, COPPER, LEAD, MANGANESE, NICKEL, VANADIUM (FUME/DUST), AND ZINC (FUME/DUST).
Federal Regulatory Information:TSCA STATUS: ALL COMPONENTS OF THI
S
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 O F CALIFORNIA TO CAUSE CANCER. LEAD IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPR

ODUCTIVE TOXICITY.

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

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