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

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 S tate: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:360-692

-6656 CAGE:1ES73

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 #:009275000 Minumum % Wt:.05 Maxumum % Wt:.2 OSHA PEL:C5 MG/M3 ACGIH TLV:5 M G/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

Indred Name:TITANIUM

429-90-5 RTECS #:BD0330000 Fraction by Wt: RMND OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

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 IRRIT

ATION, 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 AN

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 DELAYED

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:EYES: FLUSH WITH PLENTY OF WATER OR SALINE FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN. SKIN: WASH THOROUGHLY WITH SOAP AND WATER F OR 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.

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: 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 D

UST IN CONTACT WITH WATER CAN GENERATE FLAMMABLE/EXPLOSIVE HYDROGEN GAS. THE SE GASES COULD PRESENT AN EXPLOSION HAZARD IN CONFINED OR POORLY VENTILATED SPACES.

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

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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 IMPERV

IOUS 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

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NG 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.

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 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: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:NOT AVAILABLE.

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.

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 & P IN: NOT REGULATED.

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 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 O F CALIFORNIA TO CAUSE CANCER. LEAD IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRO

## DUCTIVE TOXICITY.

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