

ALCOTEC WIRE CO SUB OF ALCOA WELD WIRE INC. -- 5356, WELDING WIRE AND METALLIZING WIRE -- 3439-00-873-2320

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

Product ID:5356, WELDING WIRE AND METALLIZING WIRE

MSDS Date:10/09/1995

FSC:3439

NIIN:00-873-2320

Status Code:A

MSDS Number: CKKRX

=== Responsible Party ===

Company Name:ALCOTEC WIRE CO SUB OF ALCOA WELD WIRE INC.

Address:2750 AERO PARK DR.

Box:1320

City:TR

AVERSE CITY

State:MI

ZIP:49685

Country:US

Info Phone Num:616-941-4111 / 616-941-9154

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

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

Ingred Name:SILICON

CAS:7440-21-3

RTECS #:VW040

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= 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
CAS:7440-32-6
RTECS #:XR1700000
Minumum % Wt:.05
Maxumum % Wt:.2

Ingred Name:OTHERS EACH
= Wt:.05

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Health Hazards Acute and Chronic: EYES: FUMES CAN CAUSE IRRITATION. ULTRAVIOLET RADIATION FROM WELDING CAN CAUSE FLASH BURNS. SKIN: CAN CAUSE IRRITATION. ULTRAVIOLET RADIATION FROM WELDING CAN CAUSE FLASH BURNS. INHALATION: CAN CAUSE IRRITATION, METAL FUME FEVER, ETC. CANCER HAZARD

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, AND NARROWING OF AIRWAYS. SYMPTOMS 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 (FLUID IN THE LUNGS). SYMPTOMS OF PULMONARY EDEMA MAY BE DELAYED FOR ONE OR MORE HOURS. EXPOSURE OF TEST ANIMALS & HUMAN TISSUE TO HIGH CONCENTRATIONS HAS SHOWN CHROMOSOMAL CHANGES, REPRODUCTIVE EFFECTS, BLOOD CHANGES, & DEATH FROM LUNG CONGESTION.

Medical Conditions Aggravated by Exposure: ASTHMA, CHRONIC LUNG DISEASE.

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

First Aid: EYES: FLUSH EYES WITH PLENTY OF WATER OR SALINE FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN. SKIN: WASH THOROUGHLY WITH SOAP AND WATER. CONSULT PHYSICIAN IF IRRITATION PERSISTS. INHALATION: REMOVE TO FRESH AIR. CHECK IF CLEAR AIRWAY, BREATHING, AND PRESENCE OF PULSE. PROVIDE CPR FOR PERSONS WITHOUT PULSE OR RESPIRATIONS. CONSULT PHYSICIAN.

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

Flash Point: NON-FLAMMABLE

Extinguishing Media: USE CLASS D EXTINGUISHING AGENTS/ OR DRY SAND ON SMALL CHIPS OR FINES. USE COARSE WATER SPRAY ON CHIPS, TURNINGS. DO NOT USE HALOGENATED EXTINGUISHING AGENT ON SMALL CHIPS OR FINES.

Fire Fighting Procedures: PREPLANNED PROCEDURES SHOULD BE FOLLOWED.

OULD INCLUDE THE

ISOLATION OF THE BURNING MATERIAL AWAY FROM OTHER COMBUSTIBLES TO ALLOW THE MATERIAL TO BURN ITSELF OUT, OR USE OF CLASS D EXTINGUISHERS. FIREFIGHTERS SHOULD WEAR NIOSH APPROVED, POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTHING WHEN APPROPRIATE.

Unusual Fire/Explosion Hazard:SMALL CHIPS, FINE TURNINGS, AND DUST MAY IGNITE READILY. DUST CLOUDS MAY BE EXPLOSIVE; PREVENT FORMATION OF A DUST CLOUD DURING PROCESSING.

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

Spill Release Procedures:NO SPECIAL PROCEDURES.

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

Handling and Storage Precautions:USE WITH ADEQUATE EXPLOSION-PROOF VENTILATION TO MEET EXPOSURE LIMITS. USE NON-SPARKING HANDLING EQUIPMENT. COVER AND SEAL PARTIALLY EMPTY CONTAINERS. PROVIDE GROUNDING AND BONDING WHERE NECESSARY TO PREVENT ACCUMULATION OF STATIC CHARGES DURING HANDLING AND TRANSFER OPERATIONS.

Other Precautions:MOLTEN ALUMINUM IN CONTACT WITH WATER CAN CAUSE EXPLOSION. THE RISK IS GREATEST WHEN THERE IS SUFFICIENT MOLTEN METAL TO ENTRAP OR SEAL OFF THE WATER. IF CONFINED, EVEN A FEW DROPS OF WATER CAN LEAD TO VIOLENT EXPLOSIONS. CIRCULATION OF THE WATER & REMOVAL OF THE METAL PARTICLES MINIMIZE THE HAZARD.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPROVED DUST, FUME, OR OTHER (ORGANIC VAPOR

) RESPIRATOR AS APPROPRIATE.

Ventilation:USE WITH ADEQUATE VENTILATION TO MEET EXPOSURE LIMITS LISTED.

Protective Gloves:WEAR GLOVES.

Eye Protection:WELDER'S HELMET, FACE SHIELD, FILTER LENS.

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

Supplemental Safety and Health

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

HCC:N1

NRC/State Lic Num:NOT R

ELEVENT

Melt/Freeze Pt:M.P/F.P Text:970F- 1215F

Spec Gravity:NOT DETERMINED

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NONE

Appearance and Odor:SOLID - ODORLESS

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

Stability Indicator/Materials to Avoid:YES

MOLTEN ALUMINUM CAN REACT VIOLENTLY WITH WATER, RUST, CERTAIN METAL OXIDES (OXIDES OF COPPER, IRON, AND LEAD), AND NITRATES (AMMONIUM NITRATE AND FERTILIZERS CONTAINING NITRATE.) STRONG OXIDIZERS

ACIDS AND ALKALIES & HALOGENS

Stability Condition to Avoid:WATER, HEAT.

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

Toxicological Information:NICKEL: ORAL RAT LD50: 9000 MG/KG BODY WEIGHT. SILICONE: ORAL RAT LD50: 3160 MG/KG BODY WEIGHT. MANGANESE: ORAL RAT LD50: 9000 MG/KG BODY WEIGHT.

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

Ecological:NOT AVAILABLE.

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

Waste Disposal

Methods:COLLECT SCRAP FOR REMELTING. RCRA STATUS: CHARACTERIZE IN ACCORDANCE WITH 40 CFR 261 OR STATE EQUIVALENT.

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

Transport Information:U.S.A. DOT: NOT REGULATED.

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

SARA Title III Information:SECTION 311/312 HAZARDOUS CATEGORIES: IMMEDIATE (ACUTE), DELAYED (CHRONIC). SECTION 313 TOXIC CHEMICALS: ALUMINUM (FUME/DUST), BERYLLIUM, CHROMIUM, C

OPPER, LEAD, MANGANESE,
NICKEL, VANADIUM (FUME/DUST), AND ZINC.

Federal Regulatory Information:TSCA STATUS: ALL COMPONENTS LISTED.

CERCLA HAZARDOUS SUBSTANCES: BERYLLIUM, CHROMIUM, LEAD, MANGANESE,
NICKEL, ZINC.

State Regulatory Information:PENNSYLVANIA: "SPECIAL HAZARDOUS

SUBSTANCE": BERYLLIUM, CHRMIUM, AND NICKEL. CALIFORNIA PROPOSITION
65: BERYLLIUM, HEXAVALENT CHROMIUM AND NICKEL. LEAD IS KNOWN TO THE
STATE OF CALIFORNIA TO CAUSE BIR TH DEFECTS AND OTHER REPRODUCTIVE

HARM.

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

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