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## GULF WIRE CORP -- WROUGHT ALUMINUM PRODUCTS, 4XXX SERIES ALLOYS -- 3439-00-268-9654

Product ID:WROUGHT ALUMINUM PRODUCTS, 4XXX SERIES ALLOYS

MSDS Date:10/29/1996

FSC:3439

NIIN:00-268-9654 Status Code:A

MSDS Number: CKLSP === Responsible Party ===

Company Name: GULF WIRE CORP Address: 13901 OLD GENTILLY ROAD

City:NEW ORLEANS

State:LA ZIP:70129 Country:US Info Phone

Num:504-254-0062

Emergency Phone Num:504-254-0062

Resp. Party Other MSDS Num.:HAZMIN NUMBER: 013229

CAGE:43769

=== Contractor Identification ===
Company Name:GULF WIRE CORP
Address:13901 OLD GENTILLY ROAD

Box:City:NEW ORLEANS

State:LA ZIP:70129 Country:US

Phone:504-254-0062

CAGE:43769

Company Name: R & D METALS & CHEMICALS, INC

Address:201C PERIMETER PARK

Box:22533

City:KNOXVILLE

State:TN

ZIP:37922-2233

Country:US

Phone: 423-531-6065 / FAX: 423-531-2044

Contract Num:SP0490-99-M-RA93

CAGE:56406

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

Ingred Name: ALUMINIUM

CAS:7429-90-5

RTECS #:BD0330000

Fraction by Wt: 72.0% MIN.
OSHA PEL:15 MG/M3 T DUST
ACGIH TLV:10.5 MG/M3 T DUST

Ingred Name:SILICON

CAS:7440-21-3

RTECS #: VW0400000

Fraction by Wt: 19.0% MAX OSHA PEL:15 MG/M3 T DUST ACGIH TLV:10 MG/M3 T DUST

Ingred Name:COPPER

CAS:7440-50-8

RTECS #:GL5325000

Fraction by Wt: 5.0% MAX

OSHA PEL:1 MG/M3 DUST/MIST ACGIH TLV:1 MG/M3 DUST/MIST

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:50

00 LBS

Ingred Name:TIN

CAS:7440-31-5

RTECS #:XP7320000 Fraction by Wt: 3.3% MAX OSHA PEL:2 MG/M3 METAL

ACGIH TLV:2 MG/M3 METAL

Ingred Name:MAGNESIUM

CAS:7439-95-4

RTECS #:OM2100000 Fraction by Wt: 2.0% MAX

OSHA PEL:15 MG/M3 T PARTIC

ACGIH TLV:10 MG/M3 OXIDE FUME

Ingred Name:NICKEL

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: 1.3% MAX

OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Fraction by Wt: 1.0% MAX OSHA PEL:10 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST

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ngred Name: CHROMIUM (CR II, CR III, CR VI) CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 0.15% MAX

OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Reports of Carcinogenicity:NTP:YES IARC:YES Health Hazards Acute and Chronic: ITEM AS PURCHASED IS NON-HAZARDOUS, NON-FLAMMABLE SOLID METAL ALLOYS FOR USE IN WELDING ALUMINUM

PRODUCTS, PLASMA ARC CUTTING, ARC SPRAY METALIZING. POTENTIONAL HEA

LTH EFFECTS WHEN PROCESSING OCCURS, WHICH GENERATES DUST/FUME, AND ALSO INCLUDES MILLING, CUTTING, GRINDING OPERATIONS: EYES: CAN CAUSE IRRITATION. SKIN: CAN CAUSE IRRITATION AND SENSITIZATION. INHALATION: CAN CAUSE UPPER RESPIRATORY T RACT IRRITATION, METAL FUME FEVER, AND OTHER HEALTH EFFECTS. ALSO A CANCER HAZARD. DUST CLOUDS AND/OR A MIXTURE OF MOLTEN METAL AND WATER MAY BE EXPLOSIVE. FINES AND DUST MAY GENERATE FLAMMABLE, EXPLO SIVE HYDROGEN GAS ON **CONTACT WITH** 

WATER.

Explanation of Carcinogenicity: WHEN PROCESSING WITH THIS PRODUCT CHROMIUM, NICKEL, WELDING FUMES, AND OTHER GENERATED PRODUCTS ARE LISTED AS CARCINOGENIC BY NTP AND/OR IARC.

Effects of Overexposure: IF PROCESSING: EYES: IRRITATION, SKIN: IRRITATION, SENSITIZATION, DERMATITIS, ULCERATION. INHALATION: UPPER RESPIRATORY TRACT IRRITATION, METAL FUME FEVER, PULMONARY EDEMA, ASTHMA, KIDNEY DAMAGE AND O THER HEALTH EFFECTS. CANCER HAZARD.

Medical Cond Aggravated by Exposur e:CHRONIC LUNG DISEASE, ASTHMA, SKIN RASHES, AND WILSON'S DISEASE.

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

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Flash Point:NOT FLAMMABLE  Extinguishing Media:NON-FLAMMABLE. USE COURSE WATER SPRAY ON CHIPS,    TURNINGS. USE MEDIA THAT IS APPROPRIATE FOR SURROUNDING FIRE. IF    MOLTEN, USE CLASS D EXTINGUISHING AGENTS.  Fire Fighting Procedures:FIRE FIGHTERS SHOULD WEAR NIOSH APPROVED,    POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS AND FULL    PROTECTIVE CLOTHING WHEN APPROPRIA  TE. DO NOT USE HALOGENATED    EXTINGUISHING AGENTS ON SMALL CHIP S/FINES. DO NOT USE WATER IN    FIGHTING FIRES AROUND MOLTEN METAL.  Unusual Fire/Explosion Hazard:MOLTEN ALUMINUM AND WATER IS AN EXPLOSIVE    COMBINATION. DUST CLOUDS MAY BE EXPLOSIVE: PREVENT FORMATION OF A    DUST CLOUD DURING PROCESSING.
======== Accidental Release Measures =========
Spill Release Procedures:SMALL/LARGE SPILL: IF MOLTEN: CONTAIN THE FLOW USING DRY SAND OR SALT FLUX AS A DAM. DO NO T USE SHOVELS OR HAND TOOLS TO HALT THE FLOW OF MOLTEN METAL. ALLOW THE SPILL TO COOL BEFORE REMELTING AS SCRA P.
=========== Handling and Storage ============
Handling and Storage Precautions:IF PROCESSING OF THESE PRODUCTS INCLUDES POLISHING OR GRINDING OPERATIONS WHERE DUST OR EXTREMELY FINE PARTICULATE IS GENERATED, OBTAIN AND FOLLOW THE SAFETY PROCEDURES AND EQUIPMENT GUIDES CONTAINED IN ALUMINUM ASSOCIATION BULLETIN F-1 AND NATIONAL FIRE PR OTECTION ASSOCIATION (NFPA)
BROCHURES. Other Precautions:USE WITH ADEQUATE EXPLOSION-PROOF VENTILATION TO MEET EXPOSURE LIMITS. USE NON-SPARKING HANDLING EQUIPMENT. COVER AND RESEAL PARTIALLY EMPTY CONTAINERS. PROVIDE GROUNDING AND BONDING WHERE NECESSARY TO PREVENT ACCUMULATION OF STATIC CHARGES DURING ALUMINUM DUST HANDLING AND TRANSFER OPERATIONS.
====== Exposure Controls/Personal Protection ========
Respiratory Protection: USE APPROPRIATE NIOSH APPROVED RE

ESPIRATIONS. CONSULT A PHYSICIAN IMMEDIATELY.

## **SPIRATOR**

(DUST/MIST/FUMES OR SUPPLIED AIR) DURING PROCESSING IF POTENTIAL FOR OVEREXPOSURE EXISTS. MINIMIZE BREATHING OIL VAPORS AND MIST.

Ventilation: USE WITH ADEQUATE VENTILATION TO MEET EXPOSURE LIMITS.

Protective Gloves:WEAR IMPERVIOUS GLOVES TO AVOID REPEATED OR PROLONGED SKIN CONTACT.

Eye Protection: USE SAFETY GLASSES/GOGGLES TO AVOID EYE CONTACT.

Other Protective Equipment: PERSONNEL WHO HANDLE & WORK WITH MOLTEN ALUMINUM SHOULD UTILIZE PRIMARY PROTECTIVE CLOTHING LIKE FACE

SHIELDS, FIRE RESISTANT TAPPER'S JACKETS, LEGGINGS, SPATS & SIMILAR EQUIPMENT TO PREVENT BURN INJURY.

Work Hygienic Practices:CLEANSE SKIN AFTER CONTACT, BEFORE BREAKS & MEALS & AT END OF WORK PERIOD. OIL COATING IS READILY REMOVED FROM SKIN WITH WATERLESS HAND CLEANERS FOLLOWED BY A THOROUGH WASHING WITH SOAP AND WATER.

Supplemental Safety and Health

IF THE PRODUCT IS COATED WITH OIL, WEAR OIL-RESISTANT GLOVES TO AVOID SKIN CONTACT. MINIMIZE BREATHING OIL VAPORS & MIST.

REMOVE OIL

CONTAMINATED CLOTHING; LAUNDER OR DRY-CLEAN BEFORE REUSE. REMOVE OF L CONTAMINATED SHOES & THOROUGHLY CLEAN & DRY BEFORE REUSE.

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

HCC:N1

Melt/Freeze Pt:=621.1C, #####F

M.P/F.P Text:GENERALLY 1150-1200F

Spec Gravity: 2.70 - 2.73 G/CM3

Solubility in Water:NONE

Appearance and Odor:SOLID:SHEET, PLATE, WIRE, ROD, BAR, EXTRUSION, FORGINGS, SILVERY COLOR, NO ODOR

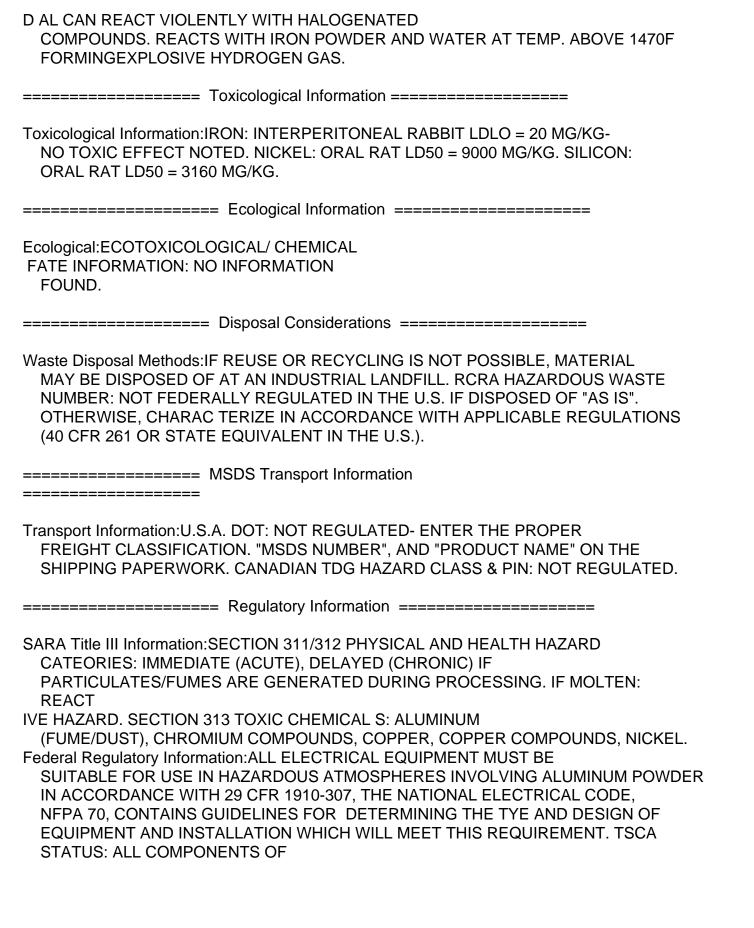
	Stability and	Reactivity	Data
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Stability Indicator/Materials to Avoid:YES

WATER/ALUMINUM MIX MAY BE HAZ. WHEN CONFINED. OXIDIZES WITH HEAT AT RATE DEPENDENT UPON TEMP. POTENTIALLY EXPLOSIVE REACTION WHEN HEATED WITH METAL OXIDES, NITRATES, SULFATES, ETC. MOLTEN AL CAN REACT VIOLENTLY WITH WATER,

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

Hazardous Decomposition Products:REACTS WITH STRONG OXIDIZERS, ACIDS, AND ALKALIS. FINELY DIVIDE



THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. CERCLA HAZARDOUS SUBSTANCE S: CHROMIUM, COPPER, NICKEL. RCRA HAZARDOUS WASTE NO. NOT FEDERALLY REGULATED IN THE U.S. IF DISPOSE D OF "AS IS". OTHERWISE, CHARACTERIZE IN ACCORDANCE WITH APPLICABLE REGULATIONS (40 CFR 261 OR STATE EQUIVALENT IN THE U.S.).

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