

UNITED STATES WELDING CORPORATION -- AWSA5.9-77 SS CORROSION & HEAT RESISTANT
WELD WIRE -- 3439-00-200-1379

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

Product ID:AWSA5.9-77 SS CORROSION & HEAT RESISTANT WELD WIRE

MSDS Date:01/06/1987

FSC:3439

NIIN:00-200-1379

MSDS Number: BKYJB

=== Responsible Party ===

Company Name:UNITED STATES WELDING CORPORATION

Address:20700 DEARBORN STREET

City:CHATSWORTH

State:CA

ZIP:91311

Info Phone Num:(818) 341-2021

Emergency Phone Num:(818) 341-2021

Preparer's Name:JORGE JACOBS

CAGE:58401

=== Contractor Identification ===

Company Name:UNITED STATES WELDING CORP

Address:3579 HWY 50 E SUITE 104

Box:City:CARSON CITY

State:NV

ZIP:89701-2807

Country:US

Phone:775-883-7878

CAGE:58401

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

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Ingred Name:CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

Fractio

n by Wt: 18.5%
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 11%
Other REC Limits:1 MG/CUM
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192

Ingred Name:COLUMBIUM, NIOBIUM
CAS:7440-03-1
Other REC Limits:5 MG/CUM

Ingred Name:TANTALUM
CAS:7440-25-7
RTECS #:WW5505000
Fraction by Wt: 0.4%
OSHA PEL:5 MG/M3
ACGIH TLV:5 MG/M3; DUST; 9192

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
OSHA PEL:1
5 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:INHALATION: DISCOMFORT, DIZZINESS,
NAUSEA, DRYNESS & IRRITATION OF NOSE & THROAT, HEADACHE, BREATHING
DIFFICULTY, COUGHING, CHEST PAINS, PULMONARY EDEMA, ASPHYXIATION,
NEUROLOGICAL DAMAGE, LUNG FIBROS IS, PNEUMOCONSIS, LUNG

DISEASES, &

FATAL. SKIN: IRRITATION. EYES: WATERING.

Explanation of Carcinogenicity:CHROMIUM & NICKEL ARE CONSIDERED TO BE A1 CONFIRMED CARCINOGENS.

Effects of Overexposure:INHALATION: DISCOMFORT, DIZZINESS, NAUSEA, DRYNESS & IRRITATION OF NOSE & THROAT, HEADACHE, BREATHING DIFFICULTY, COUGHING, CHEST PAINS, PULMONARY EDEMA, ASPHYXIATION, FATAL, NEUROLOGICAL DAMAGE, LUNG FIBROSIS, PNEUMOCONSIS, & LUNG DISEASE. SKIN: IRRITATION. EYES: WATERING.

Medical Cond Aggravated by

Exposure:IMPAIRED PULMONARY FUNCTION, AIRWAY DISEASES & CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, OR CHRONIC BRONCHITIS

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First Aid Measures
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First Aid:EYES: WASH W/LARGE AMOUNTS OF WATER. SKIN: WASH W/SOAP OR MILD DETERGENT & WATER FOR 5 MINS. INHALATION: REMOVE TO FRESH AIR. ADMINISTER OXYGEN OR GIVE ARTIFICIAL RESPIRATION IF NECESSARY. IF PULSE IS N'T DETECTED, BEGIN EXTERNAL HEART MASSAGE. INGESTION: OBTAIN MEDICAL ATTENTIO
N IN ALL CASES.

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Fire Fighting Measures
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Flash Point:NON-COMBUSTIBLE

Extinguishing Media:DRY CHEMICAL

Fire Fighting Procedures:USE FIRE FIGHTING METHODS THAT ARE APPROPRIATE FOR THE SURROUNDNG FIRE.

Unusual Fire/Explosion Hazard:MOLTEN METAL ALLOYS MAY EXPLODE/REACT VIOLENTLY ON CONTACT W/WATER.

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Accidental Release Measures
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Spill Release Procedures:IN SOLID FORM, THIS MATERIAL POSES NO SPECIAL CLEA
N-UP PROBLEMS. PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT.

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Handling and Storage
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Handling and Storage Precautions:THE WARNING PROPERTIES OF THE SUBSTANCE ARE AS A GAS, VAPOR, DUST, OR MIST.

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Exposure Controls/Personal Protection
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Respiratory Protection:USE NIOSH APPROVED RESPIRATORS.

Ventilation:LOCAL EXHAUST: TO CONTROL EXPOSURE TO AIRBORNE FUMES.

Protective Gloves:FLAME-PROOF WELDING

Eye Protect

ion:SAFETY GLASSES UNDER WELDING HELMET
Other Protective Equipment:APRON FOR WELDING
Work Hygienic Practices:REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

Solubility in Water:INSOLUBLE
Appearance and Odor:FILLER METAL, ODORLESS.

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

Stability Indicator/Materials to Avoid:YES
MOLTEN METAL ALLOYS MAY REACT VIOLENTLY W/WATER
, RUST, & CERTAIN METAL
OXIDES SUCH AS OXIDES OF COPPER, IRON & LEAD
Hazardous Decomposition Products:METAL FUMES

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

Waste Disposal Methods:PRIOR TO DISPOSAL CONSIDER IF MATERIAL HAS RECOVERY VALUE. DISCARD ANY PRODUCT IN ACCEPTABLE MANNER. DISPOSE OF ALL WASTES IN ACCORDANCE W/FEDERAL, STATE, & LOCAL REGULATIONS.

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