

UNITED STATES WELDING CORP -- WELDING ROD -- 3439-01-137-7956

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Product Identification
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Product ID:WELDING ROD

MSDS Date:10/19/1993

FSC:3439

NIIN:01-137-7956

MSDS Number: BRSVQ

=== Responsible Party ===

Company Name:UNITED STATES WELDING CORP

Address:20700 DEARBORN ST

City:CHATSWORTH

State:CA

ZIP:91311-5912

Country:US

Info Phone Num:213-341-2021

Emergency Phone Num:213-341-2021

Preparer'

s Name:DGSC-SSH

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

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Composition/Information on Ingredients
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Ingred Name:COBALT (SARA III)

CAS:7440-48-4

RTECS #:GF8750000

Fraction by Wt: 50%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1 MG/M3;AS CO

ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name:CHROMIUM (SARA III)

CAS

:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 26.5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9293
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 11.5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9293

Ingred Name:TUNGSTEN
CAS:7440-33-7
RTECS #:YO7175000
Fraction by Wt: 8%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3/ 10 STEL
ACGIH TLV:5 MG/M3/10 STEL;9293

Ingred Name:
MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 1%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 1%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:CARBON BLACK
CAS:1333-86-4
RTECS #:FF5800000
Fraction by Wt: 0.55%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:3.5 MG/M3
ACGIH TLV:3.5 MG/M3; 9293

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==== Hazards Identification =====

LD50 LC50 Mixture:TLV FOR WELDING FUMES IS 5 MG/M3

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE: FUMES AND GASES CAN CAUSE EYES AND UPPER RESPIRATORY SYSTEM IRRITATION, AND CENTRAL NERVOUS SYSTEM EFFECTS. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL. NOISE CAN DAMAGE HEA RING. CHRONIC: NEUROLOGICAL DAMAGE, LUN

G FIBROSIS, PNEUMOCONIOSIS.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM ARE LISTED UNDER IARC AND NTP.

Effects of Overexposure:SHORT TERM EXPOSURE: NAUSEA, FEVER, DIZZINESS, DRYNESS, IRRITATION OF EYES, NOSE AND THROAT, SKIN SENSITIVITY, WATERY EYES, HEADACHE, BREATHING DIFFICULTY, FREQUENT COUGHING, SHORTNESS OF BREATH.

Medical Cond Aggravated by Exposure:AGGRAVATION OF EXISTING RESPIRATORY OR ALLERGIC CONDITIONS.HIGHER LEVEL OF LUNG RELATED PROBLEMS AMONG SMO KERS.

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First Aid Measures
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First Aid:INHALATION: REMOVE FROM EXPOSURE. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF NOT BREATHING, GIVE CPR. IF NO DETECTABLE PULSE, GIVE HEART MASSAGE. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 1 5 MINUTES. SKIN: WASH WITH SOAP AND WATER. INGESTION: SEEK MEDICAL ATTENTION.

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Fire Fighting Measures
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Extinguishing Media:USE WATER FOG, CARBON DIOXI DE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. WELDING ARCS AND SPARKS CAN IGNITE COMBUSTIBLE MATERIAL.

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Accidental Release Measures
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Spill Release Procedures:CLEAN UP ANY GRINDING

DUST OR WASTE RESIDUE
AND PLACE IN APPROPRIATE DISPOSAL CONTAINER. AVOID INHALATION AND
SKIN EXPOSURE.

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

Handling and Storage Precautions:STORE IN DRY AREA. ELECTRODES EXPOSED
TO MOISTURE MAY EXPLODE VIOLENTLY IF USED. DRY MOIST RODS BY BAKING
AT 300F FOR TEN HOURS.

Other Precautions:TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES.
MONITOR AIR TO ENSURE ACCEPTABLE EXPOSURES. AVOID ELECTRICAL SHOCK
BY MAINTAINING DRY WORK AREA.

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

Respiratory Protection:FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR IN
CONFINED SPACES OR WHERE VENTILATION DOES NOT KEEP EXPOSURE BELOW
TLV.

Ventilation:LOCAL EXHAUST TO KEEP BELOW TLV.

Protective Gloves:WELDER'S GLOVES.

Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENS.

Other Protective Equipment:SUBSTANTIAL DARK CLOTH, ARM PROTECTOR,
APRON, HAT AND SHOULDER PROTECTION. AIR SAMPLING TO DETERMINE

CORRECTIVE MEASURES

Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING, SMOKING OR
USING SANITARY FACILITIES.

Supplemental Safety and Health

COMPANY OUT OF BUSINESS.INGREDIENTS AND DIMENSIONS ARE DERIVED FROM THE
TIR.

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

HCC:N1

Solubility in Water:INSOLUBLE.

Appearance and Odor:SOLID ROD,LENGTH=36",OS DIAM=0.03"NOMINAL

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

Stability Indi

cator/Materials to Avoid: YES

NONE.

Stability Condition to Avoid: AVOID GENERATION OF AIRBORNE DUST.

Hazardous Decomposition Products: FUMES OF METALS AND METAL OXIDES FROM ELECTRODE AND BASE METAL, CARBON MONOXIDE, CARBON DIOXIDE, OZONE, NITROGEN OXIDES.

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

Waste Disposal Methods: CONSULT WITH YOUR LOCAL ENVIRONMENTAL OFFICER. DISPOSE OF FUMES, FLUX OR WELD GRINDING RESIDUE FROM THE WORK AREA OR FROM FILTERS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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