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## UNITED STATES WELDING INC -- HASTELLOY W -- 3439-00-166-9584

Product ID:HASTELLOY W MSDS Date:01/06/1987

FSC:3439

NIIN:00-166-9584

MSDS Number: BMBSV === Responsible Party ===

Company Name: UNITED STATES WELDING INC

Address:1221 S CLARKSON ST

City:DENVER State:CO ZIP:80210 Country:US

Info Phone Num:303-777-2475/818-341-2021 Emergency Phone Num:303-777-2475/818-34

1-2021

Preparer's Name: JORGE JACOBS

CAGE:0EE28

=== Contractor Identification ===

Company Name: UNITED STATES WELDING INC

Address:1221 S CLARKSON ST

Box:City:DENVER

State:CO ZIP:80210 Country:US

Phone: 303-777-2475/818-341-2021

CAGE:0EE28

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

Ingred Name: NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits: NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name: CHROMIUM (SARA III)

CAS:7440-47-3 RTECS #:G B4200000

Fraction by Wt: 5%

Other REC Limits: NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9192

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

Ingred Name: MOLYBDENUM

CAS:7439-98-7

RTECS #:QA4680000 Fraction by Wt: 24.5%

Other REC Limits: NONE SPECIFIED

OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9293

Ingred Name:IRON CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: 5.5%

Other REC Limits: NONE SPECIFIED

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

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

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

Health Hazards Acute and Chronic:ACUTE-FUMES CAN CAUSE NOSE,THROAT IRRITATION,DIZZINESS,WATERY EYES,HEADACHE,NAUSEA,BREATHING DIFFICULTY,FREQUENT COUGHING,CHEST PAINS.SOME TOXIC GASES MAY CAUSE PULMONARY EDEMA,ASPHYXIATION AND EXCESS IVE EXPOSURE CAN BE FATAL.CHRONIC-MAY RESULT IN NEUROLOGICAL DAMAGE,LUNG FIBROSIS,PNEUMOCONIOSIS & OTHER LUNG DISEASES.

Explanation of Carcinogenicity: CONTAINS CHR

OMIUM AND NICKEL, PER MSDS.

Effects of Overexposure:CAN CAUSE NOSE AND THROAT IRRITATION, DIZZINESS, WATERY EYES, HEADACHE, NAUSEA, BREATHING DIFFICULTY, FREQUENT COUGHING, CHEST PAINS. SOME TOXIC GASES MAY CAUSE PULMONARY EDEMA, ASPHYXIATION AND EXCES SIVE EXPOSURE CAN BE FATAL.

Medical Cond Aggravated by Exposure:PERSONS WITH IMPAIRED PULMONARY FUNCTION, AIRWAY DISEASES AND CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, CHRONIC BRONCHITIS, ETC... CAN BE AGGRAVATED BY THE EXPOSURE.

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First Aid:GET MEDICAL ATTENTION IN ALL CASES.INHALED:REMOVE TO FRESH AIR.PROVIDE CPR/OXYGEN IF NECESSARY.EYES:FLUSH WITH WATER FOR 15 MINUTES HOLDING EYELIDS OPEN.SKIN:WASH WITH SOAP & WATER.ORAL:GET MEDICAL HE LP.
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Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH
-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE. Unusual Fire/Explosion Hazard:MOLTEN METAL ALLOYS MAY EXPLODE ON CONTACT WITH WATER. RUST AND CERTAIN METAL OXIDES (OXIDES OF COPPER,IRON,LEAD) MAY ALSO REACT VIOLENTLY WITH WATER.
======== Accidental Release Measures ==========
Spill Release Procedures:IN SOLID FORM THIS MATERIAL POSES NO SPECIAL CLEAN-UP PROBLEMS. Neutralizing Agent:NOT APPLICABLE.
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Handling and Storage Precautions:STORAGE-STORE IN A COOL,DRY,WELL VENTILATED AREA AWAY FROM MOISTURE,ACIDS & FLAMES.  Other Precautions:AVOID BREATHING OF FUMES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING AND DRINKING.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:USE NIOSH/MSHA APPROVED SUPPLIED AIR RESPIRATORY PROTECTION. Ventilati
on:LOCAL EXHAUST VENTILATION SHOULD BE USED TO CONTROL EXPOSURE TO AIRBORNE FUMES WHENEVER POSSIBLE. Protective Gloves:FLAME-PROOF WELDING GLOVES
Eye Protection:SAFETY GLASSES UNDER WELDING HELMET Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER, WORK CLOTHING AND APRON AS REQUIRED.
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING. Supplemental Safety and Health
========= Physical/Che

mical Properties =========
HCC:N1 Solubility in Water:INSOLUBLE Appearance and Odor:FILLER METAL - ODORLESS
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES STRONG ACIDS Stability Condition to Avoid:FLAMES Hazardous Decomposition Products:METAL FUMES.
======= Disposal Considerations ==========
Waste Disposal Methods:PRIOR TO DISPOSAL, CONSIDER IF MATERIAL HAS RECOVERY VALUE. DISPOSE OF IN A CCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. PREVENT WASTE FROM CONTAMINATING ENVIRONMENT.
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