

U S ALLOY CO DBA WASHINGTON ALLOY CO -- TITANIUM METAL, WELDING ROD --
3439-01-412-6552

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

Product ID:TITANIUM METAL, WELDING ROD
MSDS Date:01/01/2001
FSC:3439
NIIN:01-412-6552
Status Code:A
MSDS Number: CLNBX
=== Responsible Party ===
Company Name:U S ALLOY CO DBA WASHINGTON ALLOY CO
Address:9809 160TH ST E
Box:73909
City:PUYALLUP
State:WA
ZIP:98373
Country:US
Info Phone Num:206-848-2230
Emergency Phone Num:253-848-2230
CAG
E:0AZS7
=== Contractor Identification ===
Company Name:JO-JON INC
Address:360 FREEPORT BLVD SUITE 1 & 2
Box:UNKNOWN
City:SPARKS
State:NV
ZIP:89431
Country:US
Phone:702-356-6988
Contract Num:SP0400-98-V-1435
CAGE:009J0
Company Name:U S ALLOY CO DBA WASHINGTON ALLOY CO
Address:9809 160TH ST E
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Country:US
Phone:206-848-2230
CAGE:0AZS7

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

Ingred Name:TITANIUM METAL
CAS:7440-32-6
RTECS #:XR1

700000
Fraction by Wt: 85%OR MORE

Ingred Name:WELDING ROD CONTAINS ONE OR MORE OF THE FOLLOWING ALLOY METALS.

Ingred Name:ALUMINUM

Ingred Name:CHROMIUM

Ingred Name:IRON
Fraction by Wt: /P

Ingred Name:TIN

Ingred Name:VANADIUM

Ingred Name:ZIRCONIUM

Ingred Name:MOLYBDENUM

Ingred Name:PALLADIUM

Ingred Name:TANTALUM

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

Health Hazards Acute and Chronic:INHALATION: FROM WELDING OR CUTTING.
MAY GENERATE OZONE AND/OR OX
IDES OF ALLOY METALS; IRRITATION OF THE
RESPIRATORY TRACT. EXPOSURE MAY INCLUDE HEADACHE, DIZZINESS, LUNG
AND THROAT IRRITATION.
Effects of Overexposure:INHALATION: FROM WELDING OR CUTTING: IRRITATION
OF THE RESPIRATORY TRACT. EXPOSURE MAY INCLUDE HEADACHE, DIZZINESS,
LUNG AND THROAT IRRITATION.

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

First Aid:EXPOSURE TO OZONE, ALLOY METAL OXIDES AND/OR FUMES: REMOVE
FROM EXPOSURE AND ADMINISTER OXYGEN. NOTIFY

A PHYSICIAN.

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

Flash Point:WILL NOT FLASH.
Extinguishing Media:USE NATIONAL FIRE PROTECTION ASSOCIATION CLASS D
EXTINGUISHER (SALT). USE SALT OR SAND TO REDUCE OXYGEN.
Unusual Fire/Explosion Hazard:PRODUCT WILL NOT FLASH. SWARF OR FINES
MAY IGNITE BTWEEN 350C AND 400C.

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

Spill Release Procedures:DOES NOT APPLY.

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

Respiratory Protection:WELDING AND CUTTING: USE WELDING FUME RESPIRATOR
(NIOSH APPROVAL NUMBER TC-21C-239). IN CONFINED AREAS, USE SUPPLIED
AIR RESPIRATORS OR HOODS. (NIOSH APPROVAL NUMBER TC-19C-72, 78,
90). IN ALL CASES READ THE MANUFACTURER'S INSTRUCTIONS ON
RESPIRATOR USE, FITTING, AND MAINTENANCE.
Ventilation:PROVIDE LOCAL VENTILATION WHEN WELDING OR CUTTING TO KEEP
AIRBORNE CONCENTRATIONS BELOW RECOMMENDED LEVELS.
Eye Protection:USE EYEWEAR
TO PROTECT AGAINST WELDING, CUTTING.
Supplemental Safety and Health

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

HCC:N1
Melt/Freeze Pt:=1700.C, #####F
Appearance and Odor:TITANIUM WELDING ROD: 0.045 INCHES IN DIA. BY 36
INCHES LONG.

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

Stability Indicator/Materials to Avoid:YES
Hazardous Decomposition Products:OXIDES AND/OR FUMES WHEN WELDING OR
CUTTING.

===== Toxicological Info

rmation =====

Toxicological Information:THRESHOLD LIMIT VALUE: NO TLV FOR TITANIUM METAL. INDUSTRIAL CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGENISTS HAS CLASSIFIED TIO2 AS A NIUSANCE DUST. (10 MG/M3 TOTAL DUST, 5 MG/M3 RESPIRABLE DUST). ALU MINUM: NO TLV LISTED; IRON: NO TLV LISTED; ACGIH HAS ISSUED A TLV FOR FE2O3: FUME 10 MG/M3; MOLYBDENUM: NO TLV LISTED; PALLADIUM: NO TLV LISTED; TANTAIUM: 5 MG/M3; TIN: 2 MG/M3; VANADIUM:0.5 MG/M3; AC GIH HAS ISSUED A TL
V
FOR V2O3 DUST = 0.5 MG/M3, FUME = 0.1 MG/M3.

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

Waste Disposal Methods:DISPOSE OF METAL SCRAP AND SWARF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

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