

CERTANIUM ALLOYS & RESEARCH CO -- 12019 CERTANIUM 247 1/2" HARDFACING -- 3439-00F023923

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

Product ID:12019 CERTANIUM 247 1/2" HARDFACING

MSDS Date:01/25/1990

FSC:3439

NIIN:00F023923

MSDS Number: BNJTL

=== Responsible Party ===

Company Name:CERTANIUM ALLOYS & RESEARCH CO

Address:4500 EUCLID AVE

City:CLEVELAND

State:OH

ZIP:44103

Country:US

Info Phone Num:(216) 391-8300

Emergency Phone Num:(216) 391-8300

CAGE:61404

=== Contractor Identification ===

Company Name:CERTANIUM ALLOYS & RESEARCH CO

Address:4500 EUCLID AVENUE

Box:City:CLEVELAND

State:OH

ZIP:44103-1395

Country:US

Phone:216-391-8300

CAGE:61404

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

Ingred Name:CHROMIUM METAL, CHROMIUM, CHROME (SUSPECTED A1 HUMAN
CARCINOGEN BY IARC, NTP & ACGIH)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 10-30%WT

OSHA PEL:1 MG/CUM (CEILING)

ACGIH TLV:0.5 MG/CUM

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:MOLYBDENUM (SOLUBLE COMPOUND), LEAD MOLYBDATE

CAS:7439-98-7

RTECS #:QA4680000

Fraction by Wt: 1-5%/WT

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3; 9293

Ingred Name:CARBON, GRAPHITE

CAS:7440-44-0

RTECS #:FF5250100

Fraction by Wt: 1-5%/WT

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:2 MG/M3 TDUST; 9293

Ingred Name:VANADIUM

CAS:7440-62-2

RTECS #:YW1355000

Fraction by Wt: 1-5%/WT

Other REC Limits:0.1 MG/CUM

OSHA PEL:C,0.5 MG V205/M3 RD

ACGIH TLV:0.05 MG V205/M3;9293

Ingred Name:MANGANESE, MN COMPOUNDS
CAS:7439-96-5
RTECS #:009275000
Fraction by Wt: 1-5%/WT
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 50-70%WT

Ingred Name:TUNGSTEN CARBIDE
CAS:12070-12-1
RTECS #:Y07250000
Fraction by Wt: 1-10%WT
Other REC Limits:5 MG(W)/M3
OSHA PEL:5 MG/CUM
ACGIH TLV:5 MG(W)/M3

Ingred Name:COLUMBIUM, NIOBIUM
92-2
CAS:7440-03-1
Fraction by Wt: 1-5%/WT
Other REC Limits:5 MG/CUM

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:EYES: IRRITATION. INHALATION:
DIZZINESS, NAUSEA, DRYNESS OR IRRITATION OF NOSE, THROAT & EYES,
HARMFUL TO RESPIRATORY SYSTEM.
Explanation of Carcinogenicity:CHROMIUM IS AN A1 SUSPECTED HUMAN
CARCINOGEN BY ACGIH.
Effects of Overexposure:EYES: IRRITATION. INHALATION: DIZZINESS,
NAUSEA, DRYNESS OR IRRITATION OF NOSE, THROAT, & EYES, HARMFUL TO
RESPIRATORY SYSTEM.

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

First Aid:EYES: FLUSH W/PLENTY OF WATER FOR 15 MMISN. SKIN: WASH
W/PLENTY OF SOAP & WATER. INHALATION: REMOVE TO FRESH AIR.
ADMINISTER OXYGEN IF BREATHING IS DIFFICULT. INGESTION: INDUCE
VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS.
Unusual Fire/Explosion Hazard:CONTACT W/FLAME OR HOT SURFACES MAY
PRODUCE TOXIC GASES.

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

Spill Release Procedures:CONTAIN & PICK-UP WASTE MATERIAL. PUT IN
SEALED APPROVED CONTAINER.

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

Handling and Storage Precautions:KEEP ONLY IN ORIGINAL LABELED
CONTAINERS.
Other Precautions:KEEP OUT OF REACH OF CHILDREN. FUME/GASES FROM
WELDING & HIGH TEMPERATURE CUTTING CANNOT BE CLASSIFIED SIMPLY. THE
COMPOSITION & QUANTITY OF BOTH DEPEND ON THE ALLOY BEING WELDED.

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

Respiratory Protection:USE HOOD, RESPIRATOR, OR SUPPLIED AIR MASK
Ventilation:LOCAL OR MECHANICAL IS REQUIRED
Protective Gloves:WELDERS
Eye Protection:FACE SHIELD W/COLORED ABSORPTIVE LENS
Other Protective Equipment:APRON, SLEEVES, & LEGGINGS
Supplemental Safety and Health

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

Appearance and Odor:SOLID ROD

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

Stability Indicator/Materials to Avoid:YES
Stability Condition to Avoid:SPARKS, FLAME, & OTHER IGNITION SOURCES
Hazardous Decomposition Products:MAY INCLUDE
IRON/MANGANESE/SILICON/CHROMIUM/NICKEL/CO/OZONE/METAL OXIDES/METAL
FLUORIDES

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/FEDERAL, STATE, &
LOCAL REGULATIONS.

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