

US ALLOY BDA WASHING ALLOY CO -- USA 308-16 -- 3439-00-967-2967

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

Product ID:USA 308-16
MSDS Date:03/01/1998
FSC:3439
NIIN:00-967-2967
MSDS Number: CHHPZ
=== Responsible Party ===
Company Name:US ALLOY BDA WASHING ALLOY CO
Address:9809 160TH ST E
City:PUYALLUP
State:WA
ZIP:98373
Country:US
Info Phone Num:206-848-2230
Emergency Phone Num:206-848-2230
CAGE:MO403

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== Contractor Identification ==
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
Phone:206-848-2230
CAGE:0AZS7
Company Name:US ALLOY BDA WASHING ALLOY CO
Address:9809 160TH ST E
Box:City:PUYALLUP
State:WA
ZIP:98373
Country:US
Phone:206-848-2230
CAGE:MO403

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

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Other REC Limits:NONE RECOMMENDED

Ingred

Name:NICKEL (SARA 313) (CERCLA)
CAS:7440-02-0
RTECS #:QR5950000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9596

Ingred Name:MOLYBDENUM
CAS:7439-98-7
RTECS #:QA4680000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 PPM.
ACGIH TLV:10 PPM.

Ingred Name:MANGANESE (SARA 313)
CAS:7439-96-5
RTECS #:OO9275000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C, 5 MG/M3 (FUME)
ACGIH TLV:0.2 MG/M3; 9596

Ingred Name:CHROMIUM (SARA 313) (CERCLA)
CAS:7440-47-3
RTECS #:GB4200000
Other REC
Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9596
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9596

Ingred Name:NIOBIUM (ALSO CALLED COLUMBIUM)
CAS:7440-03-1
Other REC Limits:NONE RECOMMENDED

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:XR2275000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9596

Ingred Nam

e:CALCIUM CARBONATE (MARBLE) (LIMESTONE)

CAS:1317-65-3

RTECS #:EV9580000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9596

Ingred Name:CALCIUM FLUORIDE (AS F)

CAS:7789-75-5

RTECS #:EW1760000

Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM SILICATE

CAS:1344-09-8

Other REC Limits:NONE RECOMMENDED

Ingred Name:KAOLIN

CAS:1332-58-7

RTECS #:GF1670500

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:2 MG/M3 TDUST; 9596

Ingred Name:POTAS

SIUM SILICATE

CAS:1312-76-1

Other REC Limits:NONE RECOMMENDED

Ingred Name:CRYOLITE (SODIUM ALUMINUM FLUORIDE)

CAS:15096-52-3

RTECS #:WA9625000

Other REC Limits:NONE RECOMMENDED

Ingred Name:ZIRCONIUM SILICATES

CAS:7440-67-7

RTECS #:ZH7070000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3

ACGIH TLV:5 MG/M3/10 STEL;9596

Ingred Name:COPPER (SARA 313) (CERCLA)

CAS:7440-50-8

RTECS #:GL5325000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1MG/M3 FUME/1 DUST

ACGIH TLV:0.2 MG/M3 FUME; 9596

EPA Rpt

Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:QUARTZ
CAS:14808-60-7
RTECS #:VV7330000
Other REC Limits:NONE RECOMMENDED
OSHA PEL:SEE TABLE Z-3
ACGIH TLV:0.1 MG/M3 RDUST;9596

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute and Chronic:INHAL WELD FUME/GAS CAN BE DANGEROUS
TO HEALTH.ACUTE
OVEREXPO MAY RESULT IN
DICOMFT(DIZZ,NAU,DRYNESS/IRRIT NOSE/THROAT/EYES).INHAL EXTR HI F
LEVELS MAY CAUSE ADB PAIN,DIZZ,MUSCULAR WEAK,CONVULS.CONTD INHAL
COULD CAUSE LOSS OF CONSC,DEATH.CR(VI)CMPD IN FUME MAY CAUSE SEVERE
IRRIT BRONCH LUBE/LUNGS;INGEST CR(VI)(SIGN/SY)
Explanation of Carcinogenicity:PER MSDS:CHRONMIUM AND NICKEL COMPOUNDS.
Effects of Overexposure:HEALTH:SALTS MAY CAUSE INJURY/DEATH,MAY BURN
EYES.CR CMPDS MAY CAUSE ALLERGIC RX IN SOME PEOPLE.NI OXIDES IN
FUM
E MAY CAUSE TIGHT AROUND CHEST,FEVER,ALLERGIC RX IN SOME
PEOPLE.CHRONIC:SIDEROSIS,AFFECT PULM FUNCTION,EXCESS CALCIFICATION
OF BONES/LIGAMENTS OF RIBS/PELVIS/SPINAL
COL,ULCERATION,/PERFORATION OF (OTH PRECAU)
Medical Cond Aggravated by Exposure:CHROMIUM COMPOUNDS MAY CAUSE
ALELRGIC RXS IN SOME PEOPLE.NICKEL OXIDES MAY CAUSE ALLERGIC RXS IN
SOME PEOPLE.

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

First Aid:CALL FOR MED ASSISTANCE.USE 1ST AID PROCEDUR
ES RECOMMENDED BY
AMERICAN RED CROSS.IF BREATHING IS DIFFICULT GIVE OXY.IF NOT
BREATHING USE CPR(CARDIOPULMONARY RESUSCITATION).CONSULT PHYSICIAN
IF IRRIT OF EYES/SKIN OR FLASH BURNS DEVELOP AFTEREXPOSURE.

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

Flash Point:NON-FLAMMABLE
Lower Limits:NA
Upper Limits:NA
Extinguishing Media:NONE SPECIFIED BY MANUFACTURER.
Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER.
Unusual Fire/Explosion Hazard:WELDING AND S

PARKS CAN IGNITE
COMBUSTIBLES.SEE Z.49-1.

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

Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:READ/UNDERSTAND MFG INSTRUC/PRECAUT LABEL.SEE Z49.1 & 29CFR1910.WELDERS SHOULD INSULATE THEMSELVES FRM WORK/GROUND.

Other Precautions:1 METHOD OF DETERM FUMES/GASES COMPO/QUANT TO WHICH WORKERS EXPO IS TAKE AIR SMPL FRM INSIDE WELD HELMET OR W/IN BREATH ZONE.SEE ANSI/AWS F1.1.SIGN/SYMPT:NASAL SEPTUM,LIV/KID DMG,LUNG FIB,PNEUM.ARC RA Y-INJURE EYE,BURN SKIN.ELECT SHOCK KILL.

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

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE OR GENERAL WORKAREA WHERE LOC EXHA &/OR VENTI DOESNT KEEP EXPO BEL THRESHOLD LIMIT VALU E.

Ventilation:USE PLENTY OF VENTI &/OR LOC EXHA @ARC TO KEEP FUME/GAS BE TLV W/I BREATHING ZONE/GEN WORKAREA.

Protective Gloves:WELDER GLOVES

Eye Protection:HELMET,FCSHEILD W/FIL LENSE SHADE#12-14

Other Protective Equipment:SHIELD OTHER WORKERS-PROVIDE SCREENS,FLASH GOGG.WEAR APPROV HEAD/HAND/BODY PROT-PROTECT FRM RADIATION,SPARK,ELECT SHOCK.

Work Hygienic Practices:ADVISE WELDER KEEP HEAD OUT OF FUMES;TRAIN NOT TOUCH ELECTRI LIVE PARTS.ARM PROT,APRON,HATS,SHOULDER PROT,DARK SUB

CLOTH

Supplemental Safety and Health

DECOMPO:INFLUENCE BY COAT PRESENT,#OF WELDERS,VOL OF WORKAREA,VENTI QAU/AMT,WELDER HEAD POSITION TO FUME PLUME,CONTAM IN ATM.ORIGINATED FRM VOLATILIZATION,RX,OXID OF INGRED +FRM BASE METAL,COAT,OTHE R FACTORS AS NOTED.REASONABLE EXPECTED:COMPLEX OXIDES OF AL,FE,MN,SI,TI,CR,NI,CA,MO,CU,&F,CO,CO2,OZONE,NITROGEN OXIDES.

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

HCC:N1

Boiling Pt:B.P. Text:NA

Melt/Freeze Pt:

M.P/F.P Text:NA
Decomp Temp:Decomp Text:NA
Vapor Pres:NA
Vapor Density:NA
Spec Gravity:NA
pH:NA
Evaporation Rate & Reference:NA
Solubility in Water:NA
Appearance and Odor:AWS A5.4(STICK ELECTRODE);AWS A5.9(SOLID WIRE)
Percent Volatiles by Volume:NA
Corrosion Rate:NA

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

NONE SPECIFIED BY MANUFACTURER.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:WED FUMES/GAS CANT BE CLASSIFIED
SIMPLY.COMPO/QUANT DEPEND UPON METZL BEING
WELD,PROCEDURES,ELECTRODES USED.ALSO(SUPPLE)

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

Waste Disposal Methods:DISCARD ANY PRODUCT,RESIDUE DISPO CNTNR,LINER IN
ENVIRO ACCEPTABLE MANNER APPROV BY LOCAL, STATE AND FEDERAL
REGULATIONS.

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