

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

====  
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 Nam

e: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 Name:C

ALCIUM 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:POTASSIU

M 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:ZIRCOMIUM 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

=====  
===== 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 OVE  
REXPO 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  
FUME M  
AY 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.

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

First Aid:CALL FOR MED ASSISTANCE.USE 1ST AID PROCEDURES  
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 AFTER EXPOSURE.

=====  
===== 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 SPAR

KS 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 COM PO/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 VALUE.

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 QAUL/AMT,WELDER HEAD POSITION TO FUME PLUME,CONTAM IN ATM.ORIGINATED FRM VOLATILIZATION,RX,OXID OF INGREGS +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.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defense. The United States of Americ  
a in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.