

HIGH QAULITY ALLOYS -- HQA/5554 ALUMINUM WELDING WIRE & ROD -- 3439-00-803-9499

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

Product ID:HQA/5554 ALUMINUM WELDING WIRE & ROD

MSDS Date:03/15/1993

FSC:3439

NIIN:00-803-9499

MSDS Number: CFYXX

=== Responsible Party ===

Company Name:HIGH QAULITY ALLOYS

Address:12329 TELEGRAPH ROAD

City:SANTA FE SPRINGS

State:CA

ZIP:90670

Country:US

Info Phone Num:310-941-3264

Eme

rgency Phone Num:310-941-3264

Preparer's Name:MARK A. COMSTOCK

CAGE:KO878

=== Contractor Identification ===

Company Name:HIGH QAULITY ALLOYS

Address:12329 TELEGRAPH ROAD

Box:City:SANTA FE SPRINGS

State:CA

ZIP:90670

Country:US

Phone:310-941-3264

CAGE:KO878

Company Name:HIGH QUALITY ALLOYS

Address:12328 TELEGRAPH RD

Box:City:SANTA FE SPRINGS

State:CA

ZIP:80670

Country:US

Phone:213-841-3264

CAGE:2Z398

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

Ingred Name:IRON (FE)

CAS:7

439-89-6
RTECS #:NO4565500
Fraction by Wt: 0.40%
Other REC Limits:NONE RECOMMENDED

Ingred Name:COPPER (SARA 313) (CERCLA) (CU)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 0.10%
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:MANGANESE (SARA 313) (MN)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 0.10%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C, 5 MG/M3 (FUME)
ACGIH TLV:0.2 MG/M3; 9596

Ingred Name:SILICON (SI)
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 0.25%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9596

Ingred Name:CHROMIUM (SARA 313) (CERCLA) (CR)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 0.20%
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:MAGNESIUM OXIDE (MG)
CAS:1309-48-4
RTECS #:OM3850000
Fraction by Wt: 3.0%
Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MG/M3 PARTICULATE
ACGIH TLV:10 MG/M3; FUME; 9596

Ingred Name:TITANIUM (TI)
CAS:7440-32-6
RTECS #:XR1700000
Fraction by Wt: 0.20%
Other REC Limits:NONE RECOMMENDED

Ingred Name:ZINC OXIDE (SARA 313) (CERCLA) (ZN)
CAS:1314-13-2
RTECS #:ZH4810000
Fraction by Wt: 0.25%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9596

Ingred Name:ALUMINUM (SARA 313) (AL)
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: REMAINR
Other REC Limits:NONE RECOMMENDED
OSH
A PEL:15 MG/M3 DUST
ACGIH TLV:10 MG/M3 DUST; 9596

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:EXPO TO DUST/WELDING
FUME/GAS:SHORT-TERM-METALLIC TASTE,NAU,TIGHTNESS OF
CHEST,FEVER,IRRIT EYE/NOSE/THROAT/SKIN,UNCONSC/DEATH DUE TO WELDING
GAS/LACK OF OXY.LONG-TERM-ADV
ERSE EFFECTS FRM LONGTERM WELD
FUME/GAS/DUST EXPO,SKIN SENS,NEUROLOGICAL DMG,RESP
DISEASE(BRONCHIAL ASTHMA,LUNG FIBROSIS,PNEUMOCONOSIS).
Explanation of Carcinogenicity:PER MSDS:CR MUST BE CONSIDERED POSSIBLE
CARC UNDER OSHA,IARC.
Effects of Overexposure:EXPO TO DUST/WELDING
FUME/GAS:SHORT-TERM-METALLIC TASTE,NAU,TIGHTNESS OF
CHEST,FEVER,IRRIT EYE/NOSE/THROAT/SKIN,UNCONSC/DEATH DUE TO WELDING
GAS/LACK OF OXY.LONG-TERM-ADVERSE EFFECTS FRM LONGTERM WELD
FUME/GAS/DUST E

XPO,SKIN SENS,NEUROLOGICAL DMG,RESP
DISEASE(BRONCHIAL ASTHMA,LUNG FIBROSIS,PNEUMOCONOSIS).
Medical Cond Aggravated by Exposure:AGGRAVATION OF PRE-EXISTING
RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN OSME WORKERS.

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First Aid Measures
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First Aid:REMOVE FROM EXPO & OBTAIN PROMPT MED ATTN.IF VICTIM IS
UNCONSCIOUS ADMINISTER OXYGEN.IF NOT BREATHING RESUSCITATE IMMED.

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Fire Fighting Measures
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Flash Point:NON-FLAMMABLE
Autoignition Temp:Autoignition Temp Text:NP
Lower Limits:NP
Upper Limits:NP
Extinguishing Media:NONE SPECIFIED BY MANUFACTURER.
Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER.
Unusual Fire/Explosion Hazard:WELDING ARC/SPARKS CAN IGNITE
COMBUSTIBLES.REFER:AMER NAT STD Z49.1 FOR PREVENTION/PROTECTION
INFO DURING USE OF WELDING/RELATED PROCEDURES.

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Accidental Release Measures
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Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage
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Handling and Storage Precautions:READ/UNDERSTAND MFG
INSTRUCTIONS/PRECAUTION LABEL ON PROD.SEE AMER NAT STD Z49.1 & OSHA
29CFR1910 FOR MORE DETAIL INFO ON VENTILATION,RESP PROT,EYE/SKIN PROT.
Other Precautions:DETERMINE ACTUAL EXPOSURE BY INDUSTRIAL HYG MONITORING.
AT MIN INCLUDE WELDERS GLOVES,PROTECTIVE FACESHIELD,MAY INCLUDE ARM
PROTECTORS,APRONS,HATS,SHOULDER PROTECTION AS WELL AS DARK
SUBSTANTIAL CLOTHING.
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Exposure Controls/Personal Protection
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Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED
RESPIRATION WHEN WELDING IN CONFINED SPACE OR WHEN LOCAL EXHAUST OR
VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.
Ventilation:USE ENOUGH VENTILATION,LOCAL EXHAUST @ARC OR BOTH TO KEEP FUMES/GAS
BELOW TLV IN WORKER BREATH ZONE/GENERAL AREA.TRAIN WELDER KEEP (SUPP)
Protective Gloves:WELD GLOVES(MIN)
Eye Protection:WELDER HELMET,FACESHIELD W/FILT LENS SHADE #10/DK
Other Protection

ctive Equipment:PROTECTIVE SCREEN/FALSH GOGG IF NECESSARY TO SHIELD OTHERS.HAND/HEAD/BODY PROT-PREVENT RADIATION/SPARK/ELECT SHOCK INJUR

Work Hygienic Practices:TRAIN WELDER NOT TOUCH LIVE ELECTRICAL PARTS & TO INSULATE HIMSELF FRM WORK/GROUND.

Supplemental Safety and Health

DECOMPO PROD:OXIDES OF METALS,CHROMATES,FLUORIDES,COMPLEX METALLIC.GAS MAY INCLUDE CO,OZONE,OXIDES OF NITROGEN.CHLORINATED SOLVTS MAY BE DECOMPO BY ARC INTO TOXIC GASES(PHOSGENE).MAY ALSO FIND COBALT,

CU,IRON OXIDE,SILICON,MG,AL,MN,MO,TI,ZNFUMES/OXIDES. VENTI:HEAD OUT OF FUMES.

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

HCC:N1

Boiling Pt:B.P. Text:NP

Melt/Freeze Pt:M.P/F.P Text:NP

Decomp Temp:Decomp Text:NP

Vapor Pres:NP

Vapor Density:NP

Spec Gravity:NP

pH:NP

Viscosity:NP

Evaporation Rate & Reference:NP

Solubility in Water:NP

Appearance and Odor:SOLID METALS SHAPED AS WIRE OF VARIOUS DIAMETERS

Percent Volatiles by Volume:NP

Corrosion Rate:NP

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

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:CANT BE CLASSIFIED SIMPLY.COMPO/QUANT DEPEND ON METAL BEING WELD,PROCESS,PROCEDURES,ELECTRODES USED.MAY INCLUDE (SUPPLE)

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

Waste Disposal Methods:NONE SPECIFIED BY MANUFACTURER.

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