

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

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ergency 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:

7439-89-6  
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 RECOMMENDE

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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  
OS  
HA 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-AD  
VERSE 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

EXPO,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 Prot

ective 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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