

HEFLIN STEEL COMPANY -- ALUMINUM ALLOYS -- 3439-00-178-8590

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Product Identification  
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Product ID:ALUMINUM ALLOYS

MSDS Date:05/11/1987

FSC:3439

NIIN:00-178-8590

MSDS Number: BQXRT

=== Responsible Party ===

Company Name:HEFLIN STEEL COMPANY

Address:1111 W MARICOPA FREEWAY

Box:1249

City:PHOENIX

State:AZ

ZIP:85001

Country:US

Info Phone Num:602-252-8061

Emergency Phone Num:602-252-8061

CAGE:9

J432

=== Contractor Identification ===

Company Name:HEFLIN STEEL COMPANY

Address:1111 W MARICOPA FREEWAY

Box:1249

City:PHOENIX

State:AZ

ZIP:85001

Country:US

Phone:602-252-8061

CAGE:9J432

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Composition/Information on Ingredients  
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Ingred Name:ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000

Fraction by Wt: 90-99.7%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15MG/M3 DUST/5 FUME

ACGIH TLV:10MG/M3 DUST; 9293

Ingred Name:COBALT (SARA III)

CAS:7440-48-4

RTECS #:GF8750

000

Fraction by Wt: 1-10%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1 MG/M3;AS CO

ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name:COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000

Fraction by Wt: 1-10%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1MG/M3 FUME/1 DUST

ACGIH TLV:0.2MG/M3 FUME; 9293

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:IRON OXIDE (FE2O3)

CAS:1309-37-1

RTECS #:NO7400000

Fraction by Wt: 1-10%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:10 MG/M3 (FE)

ACGIH TLV:5 MG/M3(F

E),B2; 9293

Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Fraction by Wt: 0.2-0.7%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.05 MG/M3;1910.1025

ACGIH TLV:0.15 MG/M3;DUST 9293

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:MAGNESIUM OXIDE

CAS:1309-48-4

RTECS #:OM3850000

Fraction by Wt: 1-10%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MG/M3 PARTICULATE

ACGIH TLV:10 MG/M3;TDUST; 9293

Ingred Name:MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000

Fraction by Wt: 1-10%

Other

REC Limits:NONE RECOMMENDED  
OSHA PEL:(C) 5 MG/M3 DUST  
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:SILICON  
CAS:7440-21-3  
RTECS #:VW0400000  
Fraction by Wt: 1-10%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
Fraction by Wt: 1-10%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9293

Ingred Name:ZINC OXIDE  
CAS:1314-13-2  
RTECS #:ZH4810000  
Fraction by Wt: 1-10%  
Other REC Limits:NONE RECOMME  
NDED  
OSHA PEL:15MG/M3 TDUST/5 FUME  
ACGIH TLV:10MG/M3 TDUST; 9293

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

LD50 LC50 Mixture:TLV FOR WELDING FUMES IS 5 MG/M3  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: COPPER FUMES MAY CAUSE UPPER  
RESPIRATORY TRACT IRRITATION, NAUSEA, AND METAL FUME FEVER.  
CHRONIC: LEAD FUMES MAY CAUSE CENTRAL NERVOUS SYSTEM DISTURBANCES,

RENAL CHANGES, PERIPHERAL NEUROPATHY, GASTROINTESTINAL  
DISTURBANCES, ANEMIA,AND CHROMOSOMAL CHANGES.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM IF PRESENT WILL BE  
ONLY IN TRACE AMOUNTS.

Effects of Overexposure:UPPER RESPIRATORY TRACT IRRITATION, NAUSEA,  
METAL FUME FEVER.

Medical Cond Aggravated by Exposure:PREEXISTING RESPIRATORY DISEASES  
MAY BE AGGRAVATED BY EXPOSURE TO THE DUST AND FUMES OF THIS  
PRODUCT.

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

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First Aid:INHALATION: REMOVE FROM EXPOSURE. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF NOT BREATHING, GIVE CPR. IF NO DETECTABLE PULSE, GIVE HEART MASSAGE. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SKIN: WASH WITH SOAP AND WATER. INGESTION: SEEK MEDICAL ATTENTION.

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

Extinguishing Media:USE CLASS D DRY POWDER EXTINGUISHING MATERIAL. DO NOT USE WATER OR HALOGEN ON DUST FIRE  
S.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:DUST MAY IGNITE READILY. DAMP ALUMINUM DUST MAY HEAT SPONTANEOUSLY WITH LIBERATION OF HYDROGEN TO FORM EXPLOSIVE AIR MIXTURES.

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE AND PLACE IN APPROPRIATE DISPOSAL CONTAINER. AVOID INHALATION AND SKIN EXPOSURE.

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

Handling and Storage Precautions:STORE IN DRY AREA. ELECTRODES EXPOSED TO MOISTURE MAY EXPLODE VIOLENTLY IF USED. DRY MOIST RODS BY BAKING AT 300F FOR TEN HOURS.

Other Precautions:TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES. MONITOR AIR TO ENSURE ACCEPTABLE EXPOSURES. AVOID ELECTRICAL SHOCK BY MAINTAINING DRY WORK AREA.

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

Respiratory Protection:FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR IN CONFINED SPACES OR WHERE VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation:LOCAL EXHAUST TO KEEP BELOW TLV.

Protective Gloves:WELDER'S GLOVES.

Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENS.

Other Protective Equipment:SUBSTANTIAL DARK CLOTH, ARM PROTECTOR, APRON, HAT AND SHOULDER PROTECTION. AIR SAMPLING TO DETERMINE CORRECTIVE MEASURES

Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING, SM

OKING OR  
USING SANITARY FACILITIES.  
Supplemental Safety and Health  
NONE.

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

HCC:N1  
Melt/Freeze Pt:M.P/F.P Text:900F,482C  
Spec Gravity:2.5-2.9  
Solubility in Water:INSOLUBLE  
Appearance and Odor:SOLID WITH SILVER METALLIC LUSTRE. ODORLESS.

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

Stability Indicator/Materials to Avoid:YES  
REACTS WITH STRONG ACIDS AND SODIUM HYDROXIDE. AVOID BROMATES, IODATES,  
AM  
MONIUM NITRATE AND STRONG OXIDIZERS.  
Stability Condition to Avoid:NONE  
Hazardous Decomposition Products:FUMES OF METALS AND METAL OXIDES FROM  
ELECTRODE AND BASE METAL, CARBON MONOXIDE, CARBON DIOXIDE, OZONE,  
NITROGEN OXIDES.

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

Waste Disposal Methods:CONSULT WITH YOUR LOCAL ENVIRONMENTAL OFFICER.  
DISPOSE OF FUMES, FLUX OR WELD GRINDING RESIDUE FROM THE WORK AREA  
IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONM  
ENTAL  
REGULATIONS.

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