

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:9J

432

=== 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 #:GF87500

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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(FE

),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 RECOMMEN
DED
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 FIRES

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, SMO

KING 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,
AMM
ONIUM 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 ENVIRONME
NTAL
REGULATIONS.

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