

ALL-STATE WELDING PRODUCTS INC. -- 718,BARE ALUMINUM WELDING WIRE -- 3439-00-262-4175
===== Product Identification =====

Product ID:718,BARE ALUMINUM WELDING WIRE
MSDS Date:02/12/1988
FSC:3439
NIIN:00-262-4175
MSDS Number: BMDPM
=== Responsible Party ===
Company Name:ALL-STATE WELDING PRODUCTS INC.
Address:5112 ALLENDALE LN
Box:600
City:TANEYTOWN
State:MD
ZIP:21787
Country:US
Info Phone Num:800-6
38-1647/717-637-8911
Emergency Phone Num:800-638-1647/717-637-8911
CAGE:69482

=== Contractor Identification ===
Company Name:ALL-STATE PRODUCTS/ DIV OF ESAB GROUP,INC
Address:5112 ALLENDALE ST
Box:600
City:TANEYTOWN
State:MD
ZIP:21787
Country:US
Phone:1-410-756-4330
CAGE:69482

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

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

Ingred Name

:IRON
CAS:7439-89-6
RTECS #:NO4565500
Other REC Limits:NONE SPECIFIED
OSHA PEL:10 MG/M3 (MFR)
ACGIH TLV:5 MG/M3 (MFR)

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2MG/M3 FUME; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Other REC Limits:NONE SPECIFIED
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:ZINC OXIDE
CAS:131
4-13-2
RTECS #:ZH4810000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15MG/M3 TDUST/5 FUME
ACGIH TLV:10MG/M3 TDUST; 9293

Ingred Name:MAGNESIUM
CAS:7439-95-4
RTECS #:OM2100000
Other REC Limits:NONE SPECIFIED

Ingred Name:CHROMIUM (SARA III)
CAS:7440-47-3
RTECS #:GB4200000
Other REC Limits:NONE SPECIFIED
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:TITANIUM, METAL
CAS:7440-32-6
RTECS #:XR1700000
Other REC Limits:NONE SPECIFIED
OSHA PEL:10 MG/M3 (MFR)
ACGI

H TLV:10 MG/M3 (MFR)

Ingred Name:ALUMINUM (SARA III)
CAS:7429-90-5
RTECS #:BD0330000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15MG/M3 DUST/5 FUME
ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:COBALT (SARA III)
CAS:7440-48-4
RTECS #:GF8750000
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.1 MG/M3;AS CO
ACGIH TLV:0.05 MG/M3;DUST 9293

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===== Hazards Identification =====
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:Y
ES OSHA:NO

Health Hazards Acute and Chronic:ACUTE-FUMES CAN CAUSE
IRRITATION,DIZZINESS,WATERY EYES,HEADACHE,NAUSEA,BREATHING
DIFFICULTY,COUGHING,CHEST PAINS.COPPER FUMES MAY CAUSE METAL FUME
FEVER WHICH MAY INCLUDE FEVER,BODY ACHE,CHILLS.ARC RA YS CAN INJURE
EYES & BURN SKIN.ELECTRICSHOCK CAN KILL.IR RADIATION CAN INJURE
EYES.CHRONIC-SIDEROSIS/LUNG DISEASES.

Explanation of Carcinogenicity:CONTAINS CHROMIUM.

Effects of Overexposure:FUMES CAN CAUSE IRRITATION, DIZZINESS, WATE
RY

EYES, HEADACHE, NAUSEA, BREATHING DIFFICULTY, COUGHING, CHEST
PAINS. COPPER FUMES MAY CAUSE METAL FUME FEVER WHICH MAY INCLUDE
FEVER, BODY ACHE, CHILLS. A RC RAYS CAN INJURE EYES & BURN SKIN.
ELECTRIC SHOCK CAN KILL. IR RADIATION CAN INJURE EYES.

Medical Cond Aggravated by Exposure:PERSONS WITH IMPAIRED PULMONARY
FUNCTION, AIRWAY DISEASES AND CONDITIONS SUCH AS ASTHMA, EMPHYSEMA,
CHRONIC BRONCHITIS, ETC... CAN BE AGGRAVATED BY THE EXPOSURE.

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===== Fi
rst Aid Measures =====

First Aid:GET MEDICAL ATTENTION IN ALL CASES.INHALED:REMOVE TO FRESH
AIR.PROVIDE CPR/OXYGEN IF NECESSARY.EYES:FLUSH WITH WATER FOR 15
MINUTES HOLDING EYELIDS OPEN.SKIN:WASH WITH SOAP & WATER.ORAL:GET
MEDICAL HE LP.

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===== Fire Fighting Measures =====
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Flash Point:NONFLAMMABLE
Extinguishing Media:CLASS "D" DRY CHEMICAL. DO NOT USE WATER. WATER MAY
REACT WITH BURNING ALUMINUM VIOLENTLY.
Fire Fighting Proce

dures:WEAR FULL PROTECTIVE CLOTHING AND
NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL
FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.
Unusual Fire/Explosion Hazard:NONFLAMMABLE. WELDING ARC AND SPARKS CAN
IGNITE COMBUSTIBLES.

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

Spill Release Procedures:IN SOLID FORM THIS MATERIAL POSES NO SPECIAL
CLEAN-UP PROBLEMS.
Neutralizing Agent:NOT APPLICABLE.

===== Handling and Storage ==
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Handling and Storage Precautions:STORAGE-STORE IN A COOL, DRY, WELL
VENTILATED AREA AWAY FROM MOISTURE, ACIDS & FLAMES.
Other Precautions:AVOID BREATHING OF FUMES. USE WITH ADEQUATE
VENTILATION. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING AND
DRINKING.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED SUPPLIED AIR RESPIRATORY
PROTECTION OR RESPIRABLE FUME RESPIRATOR WHEN WELDING, BRAZING OR

SOLDERING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION
DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation:LOCAL EXHAUST VENTILATION SHOULD BE USED TO CONTROL
EXPOSURE TO AIRBORNE FUMES WHENEVER POSSIBLE.

Protective Gloves:FLAME-PROOF WELDING GLOVES

Eye Protection:SAFETY GLASSES UNDER WELDING HELMET

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER, WORK
CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECO

MMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING.

Supplemental Safety and Health

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

HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID WIRE - ODORLESS

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

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS

Stability Condition to Avoid:FLAMES

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, OZONE
AND NITROGEN OXIDES MAY B

E FORMED BY THE RADIATION FROM THE ARC
DURING WELDING.

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

Waste Disposal Methods:PRIOR TO DISPOSAL, CONSIDER IF MATERIAL HAS
RECOVERY VALUE. DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND
FEDERAL REGULATIONS. PREVENT WASTE FROM CONTAMINATING ENVIRONMENT.

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