

ALL-STATE WELDING PRODUCTS INC. -- 1100,BARE ALUMINUM WELDING WIRE --  
3439-00-254-5030

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

Product ID:1100,BARE ALUMINUM WELDING WIRE

MSDS Date:02/12/1988

FSC:3439

NIIN:00-254-5030

MSDS Number: BMDPH

=== 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-

638-1647/717-637-8911

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 Nam

e: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:13  
14-13-2  
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)  
ACG

IH 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 =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:  
YES 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, WAT  
ERY

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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First 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 =====

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

edures: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 O  
R

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  
REC

COMMENDED 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

BE 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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