

ALL-STATE WELDING PRODUCTS, INC. -- BARE ALUMINUM WELDING WIRE, P/N 5556 --  
3439-00-806-2725

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

Product ID:BARE ALUMINUM WELDING WIRE, P/N 5556

MSDS Date:12/02/1988

FSC:3439

NIIN:00-806-2725

MSDS Number: BMQGR

=== 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:301-756-4330

Emergency Phone Num:800-638-1647

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:7

439-89-6  
RTECS #:NO4565500  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:10 MG/M3  
ACGIH TLV:5 MG/M3

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:5 MG/M3 CEILING  
OSHA PEL:(C) 5 MG/M3 DUST  
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:MAGNESIUM  
CAS:7439-95-4  
RTECS #:OM210000  
0  
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:ZINC OXIDE (DUST)  
CAS:1314-13-2  
RTECS #:ZH4810000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:15MG/M3 TDUST/5 FUME  
ACGIH TLV:10MG/M3 TDUST; 9293

Ingred Name:TITANIUM, METAL  
CAS:7440-32-6  
RTECS #:XR1700000  
Other REC Limits:NONE SPECIFIED

Ingred Name:COBALT (SARA III)  
CAS:7440-48

RTECS #:GF8750000

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.1 MG/M3;AS CO

ACGIH TLV:0.05 MG/M3;DUST 9293

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

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES  
Health Hazards Acute and Chronic:ACUTE: WELDING FUM  
ES MAY RESULT IN

DIZZINESS, NAUSEA, OR DRYNESS OR IRRITATION OF NOSE, THROAT OR  
EYES. CHRONIC: MAY LEAD TO SIDEROSIS (IRON DEPOSITS IN THE LUNG)  
AND IS BELIEVED TO AFFECT PULMONARY F UNCTION. ARC RAYS CAN INJURE  
EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.

Explanation of Carcinogenicity:COMPONENTS OF THIS ITEM ARE IDENTIFIED  
AS OSHA REGULATED: IRON; COPPER DUST; MANGANESE; CHROMIUM; COBALT;  
ALUMINUM.

Effects of Overexposure:DIZZINESS, NAUSEA, OR DRYNESS OR IRRITATION OF  
  
NOSE, THROAT, OR EYES. OVEREXPOSURE MAY LEAD TO SIDEROSIS (IRON  
DEPOSITS IN THE LUNG).

Medical Cond Aggravated by Exposure:AGGRAVATION OF PREEXISTING  
RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.

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

First Aid:CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED  
BY THE AMERICAN RED CROSS.

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

Flash Point:NON-FLAMMABLE  
Unusua

I Fire/Explosion Hazard:WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES.

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

Spill Release Procedures:MANUFACTURER STATES NOT APPLICABLE.

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

Handling and Storage Precautions:THESE PRODUCTS AS SHIPPED ARE NONHAZARDOUS, NONFLAMMABLE, NONEXPLOSIVE, AND NONREACTIVE. TRAIN WORKERS TO KEEP HIS HEAD OUT OF THE FUMES WHEN WELDING.

Other Precautions:TO ACTUALLY DETERMINE THE COMPOSITION AND QUANTITY OF FUMES & GASES TO WHICH WORKERS ARE EXPOSED IS TO TAKE AN AIR SAMPLE FROM THE WORKER'S BREATHING ZONE.

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

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation:USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC, OR BOTH, TO KEEP FUME

S AND GASES BELOW TLV'S.

Protective Gloves:WELDER'S GLOVES

Eye Protection:USE FACE SHIELD WITH FILTER LENS

Other Protective Equipment:ARM PROTECTORS, APRONS, HATS, SHOULDER PROTECTION. PROVIDE PROTECTION SCREENS & FLASH GOGGLES.

Work Hygienic Practices:TRAIN THE EMPLOYEE NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO INSULATE HIMSELF FROM WORK AND GROUND.

Supplemental Safety and Health

THE ACGIH RECOMMENDED GENERAL LIMIT FOR WELDING FUME NOC (NOT OTHERWISE CLASSIFIED) IS 5 MG/M3.

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

HCC:N1

Appearance and Odor:NOT DESCRIBED BY THE MANUFACTURER.

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

Stability Indicator/Materials to Avoid:YES NONE DESCRIBED BY THE MANUFACTURER.

Stability Condition to Avoid:NONE DESCRIBED BY THE MANUFACTURER.

Hazardous Decomposition Products:THE FUME AND GAS DECOMPOSITION PRODUCTS ARE DIFFERENT IN PERCENT AND FORM DEPENDENT UPON THE MATERIAL BEING WELDED.

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

Waste Disposal Methods:CONSULT YOUR LOCAL ENVIRONMENTAL OFFICER.  
PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD  
ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER, OR LINER IN AN  
ENVIRONMENTALLY ACCEPTABLE MANNER , IN FULL COMPLIANCE WITH THE  
REGULATIONS.

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