

ALL-STATE WELDING PRODUCTS DIVISION -- 718 ALUMINUM WELDING ALLOYS --
3439-00-262-4175

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

Product ID:718 ALUMINUM WELDING ALLOYS
MSDS Date:08/15/1994
FSC:3439
NIIN:00-262-4175
MSDS Number: BXTHF
=== Responsible Party ===
Company Name:ALL-STATE WELDING PRODUCTS DIVISION
Address:5112 ALLENDALE ST
Box:600
City:TANEYTOWN
State:MD
ZIP:21787
Country:US
Info Phone Num:410
-756-4330 OR 800-638-1647
Emergency Phone Num:717-637-8911(CHEMTREC 800-424-9300)
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

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

Ingred Name:COPPER (SARA 313) (CERCLA)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 0.3%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0

.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2 MG/M3 FUME; 9495
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 0.8%
Other REC Limits:NONE RECOMMENDED

Ingred Name:MAGNESIUM
CAS:7439-95-4
RTECS #:OM2100000
Fraction by Wt: 0.1%
Other REC Limits:NONE RECOMMENDED

Ingred Name:MANGANESE (SARA 313)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 0.15%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9495

Ingred Name:SILIC
ON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 11-13%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9495

Ingred Name:ZINC (SARA 313) (CERCLA)
CAS:7440-66-6
RTECS #:ZG8600000
Fraction by Wt: 0.2%
Other REC Limits:NONE RECOMMENDED
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:ALUMINUM (SARA 313)
CAS:7429-90-5
RTECS #:BD0330000
Fraction by Wt: BALANCE
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 DUST
ACGIH TLV:10 MG/M3 DUST; 9495

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Hazards Identification
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Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: EXPOSURE TO DUSTS, FUMES, GASES FROM WELDING MAY CAUSE LUNG, NOSE, THROAT & EYE IRRITATION; PULMONARY EDEMA, ASPHYXIATION OR DEATH. CHRONIC: PROLONGED OR REPEATED EXPOSURE TO WELDING FUMES, GASES, DUSTS MAY CAUSE REDUCED LUNG FUNCTION OR DISEASE; MAY CAUSE RESPIRATORY IRRITATION.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Effects of Overexposure:WATERY EYES, NOSE & THROAT IRRITATION, HEADACHE, DIZZINESS, DIFFICULTY IN BREATHING, FREQUENT COUGHING, CHEST PAIN, LETHARGY, SLEEPINESS, MUSCULAR WEAKNESS, EMOTIONAL DISTURBANCES AND SPASTIC GAIT.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH ALLERGIES OR IMPAIRED RESPIRATORY FUNCTION MAY HAVE SYMPTOMS WORSE ENDED BY EXPOSURE TO WELDING FUMES.

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First Aid Measures
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First Aid:IN CASE OF EMERGENCY, CALL FOR MEDICAL ASSISTANCE. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY RED CROSS. GIVE OXYGEN IF BREATHING DIFFICULT. FOR ELECTRICAL SHOCK; TURN-OFF ELECTRICAL POWER. GIVE ARTIFICIAL RESPIRATION IF BREATHING STOPPED. IF NO PULSE, BEGIN CPR. IMMEDIATELY CALL FOR MEDICAL ASSISTANCE. FOR ARC BURN; APPLY COLD, CLEAN COMPRESSES AND CALL FOR MEDICAL ASSISTANCE.

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Fire Fighting Measures
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Flash Point:NON-FLAMMABLE

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. PRODUCT WILL NOT BURN BUT, SPARKS FROM WELDING CAN IGNITE COMBUSTIBLES.

Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER.

Unusual Fire/Explosion Hazard:DAMP ALUMINUM DUST MAY SPONTANEOUSLY HEAT & LIBERATE HYDROGEN GAS TO FORM EXPLOSIVE AIR MIXTURES. DO NOT USE WATER OR HALOGEN ON DUST FIRES-USE DRY

POWDER/SAND.

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

Spill Release Procedures:SWEEP OR PICK-UP SPILLED MATERIALS AND PLACE IN A CONTAINER FOR REUSE OR DISPOSAL.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NO SPECIAL STORAGE RECOMMENDATIONS.

WEAR PROPER PROTECTIVE CLOTHING AS RECOMMENDED IN ANSI Z-49.1.

Other Precautions:TRAIN THE WELDER TO NOT TOUCH

LIVE ELECTRICAL PARTS

AND TO INSULATE HIMSELF FROM WORK AND GROUND. ACIDS AND BASES IN CONTACT WITH ALUMINUM MAY GENERATE EXPLOSIVE MIXTURES WITH HYDROGEN.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE WITH 29 CFR 1910.134 AND MANUFACTURER'S RECOMMENDATIONS.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST AT ARC TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:WELDER'S GLOVES.

Eye Protection:WELDER'S LENSES ON GOGGLES & FACESHIELD

Other Protective Equipment:HARD HAT, DARK SUBSTANTIAL CLOTHES, ARM PROTECTORS, APRONS, SHOULDER PROTECTION. PROTECTIVE SCREENS TO SHIELD OTHERS.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

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

HCC:N1

Appearance and Odor:METALLIC SILVER SOLID; NO ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

ANHYDROUS BROMINE.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:WELDING FUMES & GASES CANNOT BE EASILY CLASSIFIED.COMPOSITION & QUANTITY OF BOTH DEPENDENT ON MATERIAL

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BEING WELDED.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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