

ALL-STATE WELDING PRODUCTS DIVISION -- SILVER BRAZING FLUX,S-200 -- 3439-00-148-2174  
===== Product Identification =====

Product ID:SILVER BRAZING FLUX,S-200  
MSDS Date:04/01/1991  
FSC:3439  
NIIN:00-148-2174  
MSDS Number: BVTVT  
=== 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:301-756  
-4330/800-638-1647  
Emergency Phone Num:800-638-1647/800-424-9300(CHEMTREC)  
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:POTASSIUM BORATE/TETRABORATE  
CAS:1332-77-0  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST

Ingr

ed Name:POTASSIUM PENTABORATE  
CAS:11128-29-3  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST

Ingred Name:BORIC ACID  
CAS:10043-35-3  
RTECS #:ED4550000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST

Ingred Name:POTASSIUM HYDROGEN FLUORIDE/POTASSIUM BIFLUORIDE  
CAS:7789-29-9  
RTECS #:TS6650000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2.5 MG/M3 AS F  
ACGIH TLV:2.5 MG/M3 AS F

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, CNS,  
RESPIRATORY & GI TRACTS. ACUTE- ORAL:NAUSEA, DIARRHEA, CHEMICAL  
BURNS TO DIGESTIVE SYSTEM & INFLAMMATION OF MUCOUS MEMBRANES.  
EYES/INHALATION:IRRITATION. CHEMICAL BURNS  
OF EYES & SKIN. CORNEAL  
DAMAGE POSSIBLE. SKIN:DERMATITIS. CHRONIC- INCREASED RADIOGRAPHIC  
DENSITY OF BONES, DERMATITIS.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:NAUSEA, DIARRHEA, INFLAMMATION OF MUCOUS  
MEMBRANES, CHEMICAL BURNS OF EYES, SKIN, DIGESTIVE SYSTEM;  
IRRITATION OF NOSE, THROAT, EYES; DERMATITIS  
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING EYE  
PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE  
TO THE EFFECTS OF T

HE SUBSTANCE.

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

First Aid:GET MEDICAL ATTENTION IF NEEDED. EYE/SKIN:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. CORNEAL DAMAGE IS VERY POSSIBLE. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:CALL A PHYSICIAN OR POISONCONTROL CENTER IMMEDIATELY AND ADVISE ABOUT HAZARDOUS INGREDIENTS.

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

Flash Point

:NON-FLAMMABLE

Extinguishing Media:NONE. PRODUCT IS AN INHERENT FIRE RETARDANT.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:CONTAIN SPILL, ABSORB, SWEEP-UP AND TRANSFER TO CONTAINER FOR DISPOSAL. FLUSH AREA WITH WATER TO CHEMICAL SEWER.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE MATERIAL UNDER AMBIENT CONDITIONS. REMOVE AND PROFESSIONALLY WASH CONTAMINATED CLOTHING BEFORE REUSE.

Other Precautions:NO FOOD OR SMOKING IN WORK AREAS. WASH THOROUGHLY AFTER HANDLING. DO NOT BREATHE FUMES OR SMOKE. TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES AND NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO INSULATE HIMSELF FROM WORK AND GROUND.

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

Respiratory Protection:USE NIOSH-APPROVED RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN BRAZING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV. TRAIN THE EMPLOYEE TO KEEP HIS HEAD OUT OF THE FUMES.

Ventilation:USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC, TO KEEP THE FUMES BELOW TLV'S IN THE WORKERS BREATHING ZONE.

Protective Gloves:WELDER'S GLOVES/CHEMICAL IMPERVIOUS

Eye Protection:HELMET/FACE SHIELD WI

TH FILTER LENS

Other Protective Equipment:WEAR HEAD & BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS & FLAMES (HATS, SHOULDER PROTECTION...).

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR DRINKING.

Supplemental Safety and Health

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

HCC:T6

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:212F,100C

Spec Gravity:1.54

Solubility in Water:MODERATE

Appearance and Odor:SMOOTH WHITE PASTE WITH NO CHARACTERISTIC ODOR

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

Stability Indicator/Materials to Avoid:YES

ACETIC ANHYDRIDE, ELEMENTAL POTASSIUM

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:HYDROGEN FLUORIDE AND CAUSTIC POTASH

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

Waste Disposal Methods: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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