

AMERICAN SOLDER & FLUX FORCE CHEMICAL DIV -- AIRCOSIL 12 SQUEEZE
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 MATERIAL SAFETY DATA SHEET
 AMERICAN SOLDER & FLUX FORCE CHEMICAL DIVNSN: 343900N028033
 Manufacturer's CAGE: 70540
 Part No. Indicator: A
 Part Number/Trade Name: AIRCOSIL 12 SQUEEZE

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 General Information
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Company's Name: AMERICAN SOLDER AND FLUX CO INC FORCE CHEMICAL DIV
 Company's Street: 28 INDUSTRIAL BLVD
 Company's City: PAOLI
 Company's State: PA
 Company's Country: US
 Company's Zip Code: 19301
 Company's Emerg Ph #: 800-424-9300
 Company's Info Ph #: 215-647-3575 800-647-3575 DAY
 Record No. For Safety Entry: 001
 Tot Safety Entries This Stk#: 001
 Status: SMJ
 Date MSDS Prepared: 01JUN88
 Safety Data Review Date: 29SEP95
 MSDS Serial Number: BNMGZ
 Hazard Characteristic Code: N1

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 Ingredients/Identity Information
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Proprietary: NO
 Ingredient: WATER
 Ingredient Sequence Number: 01
 NIOSH (RTECS) Number: ZC0110000
 CAS Number: 7732-18-5
 OSHA PEL: NOT APPLICABLE
 ACGIH TLV: NOT APPLICABLE

 Proprietary: NO
 Ingredient: POTASSIUM ACID FLUORIDE;(POTASSIUM BIFLUORIDE)
 Ingredient Sequence Number: 02
 NIOSH (RTECS) Number: TS6650000
 CAS Number: 7789-29-9
 OSHA PEL: NOT APPLICABLE
 ACGIH TLV: 2 MG/M3 (F) (MFR)

 Proprietary: NO
 Ingredient: POTASSIUM TETRABORATE
 Ingredient Sequence Number: 03
 NIOSH (RTECS) Number: 1001592PT
 CAS Number: 1332-77-0
 OSHA PEL: NOT APPLICABLE
 ACGIH TLV: 10MG/M3(B*20*3)(MFR)

 Proprietary: NO
 Ingredient: BORIC ACID
 Ingredient Sequence Number: 04
 NIOSH (RTECS) Number: ED4550000
 CAS Number: 10043-35-3
 OSHA PEL: NOT ESTABLISHED
 ACGIH TLV: 10MG/M3(B*20*3)(MFR)

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 Physical/Chemical Characteristics
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Appearance And Odor: SMOOTH WHITE PASTE, WITH NO CHARACTERISTIC ODOR
 Boiling Point: 212F,100C
 Vapor Pressure (MM Hg/70 F): N/A
 Vapor Density (Air=1): N/A
 Specific Gravity: 1.55
 Evaporation Rate And Ref: NOT APPLICABLE
 Solubility In Water: MODERATE
 Percent Volatiles By Volume: N/A

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 Fire and Explosion Hazard Data
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Flash Point: NOT APPLICABLE
 Flash Point Method: TCC
 Lower Explosive Limit: N/A
 Upper Explosive Limit: N/A
 Extinguishing Media: NONE, PRODUCT IS AN INHERENT FIRE RETARDANT. USE
 MEDIA SUITABLE FOR SURROUNDING FIRE CONDITIONS (FP N).
 Special Fire Fighting Proc: WEAR NIOSH/MSHA APPROVED SCBA AND FULL
 PROTECTIVE EQUIPMENT (FP N).
 Unusual Fire And Expl Hazrds: NONE.

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 Reactivity Data
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Stability: YES
 Cond To Avoid (Stability): NONE.
 Materials To Avoid: ACETIC ANHYDRIDE, ELEMENTAL POTASSIUM.
 Hazardous Decomp Products: HYDROGEN FLUORIDE AND CAUSTIC POTASH.
 Hazardous Poly Occur: NO

Conditions To Avoid (Poly): NOT RELEVANT.

Health Hazard Data

LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
 Route Of Entry - Inhalation: YES
 Route Of Entry - Skin: NO
 Route Of Entry - Ingestion: YES
 Health Haz Acute And Chronic: INGEST:CHEMICAL BURNS TO DIGESTIVE SYSTEM.
 DERMATITIS, POSSIBLY A CHEMICAL BURNS. INHAL:IRRITATION TO RESPIRATORY
 SYSTEM, CHILLS OR UNPRODUCTIVE COUGH. EYE:IRRITATION TO EYES AND POSSIBLE
 BURN OF EYE SURFACES. TARGET ORGANS:SKIN, (EFTS OF OVEREXP)
 Carcinogenicity - NTP: NO
 Carcinogenicity - IARC: NO
 Carcinogenicity - OSHA: NO
 Explanation Carcinogenicity: NOT RELEVANT.
 Signs/Symptoms Of Overexp: HLTH HAZ:NASAL, & RESPIRATORY IRRITANT. CHRONIC
 EFFECTS:COUGHING, CNS EFFECTS, ERYTHEMA, NAUSEA, CHRONIC FLUORIDE
 ABSORPTION CAN RESULT IN OSSEOUS FLUOROSIS, INCREASED RADIOGRAPHIC DENSITY
 OF THE BONES AND MOTTLING OF TEETH.
 Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
 Emergency/First Aid Proc: INGEST:CALL MD OR POISON CONTROL CENTER
 IMMEDIATELY. SKIN:PROMPTLY FLUSH WITH WATER TO REMOVE ALL RESIDUE. IF RASH
 DEVELOPS, CALL MD. INHAL:MOVE TO FRESH AIR. GIVE O*2 IF NECESSARY. CALL MD.
 EYE:FLUSH WITH WATER FOR AT LEAST 15 MINUTES TO REMOVE ALL RESIDUE. GET MD,
 CORNEAL DAMAGE IS VERY POSSIBLE.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: CONTAIN SPILL, ABSORB, SWEEP-UP, DISPOSE.
 FLUSH AREA WITH WATER TO CHEMICAL SEWER.
 Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
 Waste Disposal Method: DIPSOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE,
 AND LOCAL REGULATIONS.
 Precautions-Handling/Storing: WASH HANDS THOROUGHLY AFTER HANDLING TO
 REMOVE ALL RESIDUE. STORE FLUX UNDER AMBIENT CONDITIONS.
 Other Precautions: REMOVE AND PROFESSIONALLY WASH CONTAMINATED CLOTHING
 BEFORE RE-USE.

Control Measures

Respiratory Protection: IF THE WORK STATION IS NOT VENTILATED TO REMOVE
 ALL DUSTS & FUMES, USE NIOSH/MSHA APPROVED MASK.
 Ventilation: MAINTAIN AIR FLOW AWAY FROM USER TO EXHAUST ALL DUSTS AND
 FUMES SO THAT TLV IS NEVER EXCEEDED.
 Protective Gloves: CHEMICAL IMPERVIOUS GLOVES.
 Eye Protection: CHEMICAL WORKERS GOGGLES (FP N).
 Other Protective Equipment: FULL PROTECTIVE EQUIPMENT AS USED IN BRAZE/
 WELDING OPERATIONS SO AS TO PREVENT ANY CONTACT.
 Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.
 Suppl. Safety & Health Data: NONE SPECIFIED BY MANUFACTURER.

Transportation Data

Trans Data Review Date: 92216
 DOT PSN Code: ZZZ
 DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
 IMO PSN Code: ZZZ
 IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
 IATA PSN Code: ZZZ
 IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
 AFI PSN Code: ZZZ
 AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
 Additional Trans Data: NOT REGULATED FOR TRANSPORTATION

Disposal Data

Label Data

Label Required: YES
 Technical Review Date: 10MAR92
 Label Date: 10MAR92
 Label Status: G
 Common Name: AIRCOSIL 12 SQUEEZE
 Chronic Hazard: YES
 Signal Word: DANGER!
 Acute Health Hazard-Slight: X
 Contact Hazard-Severe: X
 Fire Hazard-None: X
 Reactivity Hazard-None: X
 Special Hazard Precautions: ACUTE:SKIN CONTACT CAUSES DERMATITIS, POSSIBLY
 A CHEMICAL BURN. EYE CONTACT CAUSES IRRITATION AND POSSIBLE BURN OF EYE
 SURFACES. INHALATION CAUSES RESPIRATORY SYSTEM IRRITATION, CHILLS, OR
 UNPRODUCTIVE COUGH. INGESTION CAUSES CHEMICAL BURNS TO DIGESTIVE SYSTEM.
 MAY CAUSE COUGHING, CNS EFFECTS, ERYTHMA, NAUSEA. CHRONIC:FLUORIDE
 ABSORPTION CAN RESULT IN OSSEOUS FLUOROSIS, INCREASED RADIOGRAPHIC DENSITY
 OF THE BONES AND MOTTLING OF THE TEETH.
 Protect Eye: Y

Protect Skin: Y
Protect Respiratory: Y
Label Name: AMERICAN SOLDER & FLUX CO INC
Label Street: 28 INDUSTRIAL BLVD
Label City: PAOLI
Label State: PA
Label Zip Code: 19301
Label Country: US
Label Emergency Number: 800-424-9300 (CHEMTREC)