

ABB-918™ MSDS

ABB Etch Company – **ABB 918** Fluoropolymer Etchant

MATERIAL SAFETY DATA SHEET

Trade Name: **ABB-918**

General Information

Item Name:
Fluoropolymer Etchant

Company Information:
ABB Etch Company
873 Howards Road Ste 6
Camp Verde, Arizona 86322
(ICE) Contact: 800.424.9300
Distributor/Vendor: **ABB Etch Company**
Date MSDS Prepared: **01 June 2005**

Hazardous Characteristic Code: **F6**

Ingredients

Item #1
Ingredient: DIMETHOXYETHANE
Proprietary: NO
Percent: 75
CAS # 110-71-4
OSHA PEL: NOT ESTABLISHED.
ACGIH TLV: NOT ESTABLISHED
Other recommended limit: NONE RECOMMENDED

Item #2
Ingredient: SODIUM NAPHTHALENE COMPLEX
Proprietary: NO
Percent: 25
CAS # 113492-05-0
OSHA PEL: NOT ESTABLISHED.
ACGIH TLV: NOT ESTABLISHED
Other recommended limit: None

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Physical and Chemical Characteristics

Appearance and Odor: Black- Green Liquid with Mothball Ether Odor

Boiling Point: 185° F 85° C

Melting Point: Not Known

Vapor Pressure (MM Hg/70 F°): 51 @ 70° F

Vapor Density: (Air = 1): 3.11

Specific Gravity: 0.97

Decomposition Temperature: Not Known

Evaporation Rate an f Ref: 5 (N-BUTYL ACETATE=1

Solubility in Water: Soluble

Viscosity: Not Known

pH: >12.5

Autoignition Temperature: 378° F

Fire and Explosion Hazard Data

Flash Point: 47.0 F, 8.3 C

Flash Point Method: PMCC

Lower Explosive Limit: 1.8%

Upper Explosive Limit: 10.4%

Extinguishing Media: USE DRY CHEMICAL WITH NITROGEN PROPELLANT.
USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Special Fire Fighting Protocol: WEAR PROTECTIVE CLOTHING CLOTHING AND NIOSH-
APPROVED SELF CONTAINED BREATHING APPARATUS OPERATED IN THE POSITIVE
PRESSURE MODE IN ANY CONFINED SPACES.

Unusual Fire and Explosion Hazards: VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL
CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK.
CONTAINERS MAY EXPLODE DUE TO VAPOR PRESSURE BUILD.

Reactivity Data

Stability: YES

Conditions to avoid (Stability): HIGH HEAT, SPARKS, FLAME, OTHER SOURCES OF IGNITION.

Materials to Avoid: STRONG OXIDIZING AGENTS, STRONG ACIDS, WATER.

Hazardous Decomposing Products: CARBON MONOXIDE, CARBON DIOXIDE, ACRID SMOKE
AND FUMES.

Hazardous Poly Occur: NO

Conditions to avoid (Poly): Not Relevant

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Health Hazard Data

LD50-LC50 MIXTURE: LD50 (ORAL, RAT) IS KNOWN.

Route Of Entry – Inhalation: Yes

Route Of Entry – Skin: Yes

Route Of entry – Ingestion: Yes

Health Haz Acute And Chronic: TARGET ORGANS: EYES, SKIN, CNS, LIVER, KIDNEY & GI TRACT. CAUSES EYE BURNS. MAY CAUSE SKIN IRRITATION & POSSIBLE BURNS. MATERIAL CAN BE ABSORBED THROUGH SKIN. INDIGESTION WILL CAUSE BURNS TO MOUTH, ESOPHAGUS & GI TRACT. INHALATION CAN CAUSE RESPIRATION IRRITATION, CNS EFFECTS. CHRONIC – ANEMIA, BONE MARROW DAMAGE.

Carcinogenicity – NTP: NO

Carcinogenicity – LARC: No

Carcinogenicity – OSHA: NO

Explanation Carcinogenicity: NONE

Signs/Symptoms Of Overexp: IRRITATION, HEADACHE, DIZZINESS, NAUSEA, VOMITING, DROWSINESS, BLURRED VISION, PAIN, BURNS, COUGHING, WHEEZING, SHORTNESS OF BREATH

Med Cond Aggravated By Exp: PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS, IMPAIRED CNS OR GASTROINTESTINAL FUNCTION, OR CONSUMERS OF ALCOHOL MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

Emergency/First Aid Proc: GET MEDICAL HELP IF SYMPTOMS PERSIST. IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. ORAL: CALL PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. PRODUCT REACTS WITH WATER IN THE BODY TO FORM CAUSTIC BURNS.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. PICK UP SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, EARTH, VERMICULITE. PLACE IN SUITABLE CONTAINER FOR REUSE/DISPOSAL. PREVENT LIQUID FROM ENTERING SEWERS OR WATERWAYS.

Neutralizing Agent: Not Relevant

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. RECOMMENDED PROCEDURE IS BY INCINERATION OR RECYCLING. WASTE NUMBERS D001 (IGNITABILITY) AND D002 (CORROSIVITY)

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Precautions- Handling/storing: STORE UNDER NITROGEN, BELOW 32F/0C, IN DRY, VENTILATED AREA, AWAY FROM IGNITION SOURCES & INCOMPATIBLES. ALLOW TO REACH ROOM TEMPERATURE PRIOR TO USE.

Other Precautions: CORROSIVE! EMPTY CONTAINERS RETAIN RESIDUE AND CAN BE DANGEROUS. DO NOT WELD.SOLDER/DRILL SUCH CONTAINERS. KEEP OUT OF REACH OF CHILDREN. DO NOT INGEST. DO NOT GET IN EYES OR ON SKIN. DO NOT BREATH VAPORS. WASH THOROUGHLY AFTER HANDLING.

Control Measures

Respiratory Protection: IF TLV IS EXCEEDED OR FOR SYMPTOMS OF OVER EXPOSURE, WEAR NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR OR SUPPLIED AIR RESPIRATOR. IN EMERGENCY, WEAR A NIOSH-APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.
Ventilation: MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).
Protective Gloves: RUBBER, NEOPRENE
Eye Protection: SAFETY GLASSES/CHEMICAL SPLASH GOOGLES
Other Protective Equipment: SAFETY SHOWER AND EYE WASH FOUNTAIN SHOULD BE LOCATED NEARBY. WEAR APPROPRIATE PRTECTIVE CLOTHING FOR RISK OF EXPOSURE.
Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING OR DRINKING.

Transportation Data

DOT Proper Shipping Name: FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.
Dot Class:3
Dot ID Number: UN2924
DOT Pack Group: II
DOT Label: FLAMMABLE LIQUID, CORROSIVE
IMO PSN Code: HIC
IMO Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. o
IMO Regulations Page Number: 3231
IMO UN Number: 2924
IMO UN Class: 3.2
IMO Subsidiary Risk Label: CORROSIVE
IATA PSN Code: BMG
IATA UN ID Number: 2924
IATA Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE. N.O.S. *

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IATA UN Class: 3

IATA Subsidiary Risk Class: 8

IATA Label: FLAMMABLE LIQUID & CORROSIVE, N.O.S.

AFI PSN Code: MBG

AFI Symbols: *

AFI Prop. Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

AFI Class: 3

AFI ID Number: UN2924

AFI Pack Group: II

AFI Label: 8

AFI Special Prov: P5

AFI Basic Pac Ref: A7.3

N.O.S. Shipping Name: ETHYLENE GLYCOL DIMETHYL ETHER, SODIUM
NAPHTHALENE COMPLEX

Additional Trans Data: PROPER SHIPPING NAME, HAZARD CLASS, UN ID
NUMBER AND PACKAGING GROUP PER MSDS.

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