

MATERIAL SAFETY DATA SHEET
(Complies with 29 CFR 1910.1200)**SECTION I**

MAG-IT

Box 1931, Simpsonville, SC 29681-1931
(864) 963-7034

PRODUCT NAME: MAG-IT Aluminum Brightener
 PRODUCT CODE: 0900
 CHEMICAL NAME: Mixture
 CAS #: N/A
 MIXTURE (X)
 SINGLE SUBSTANCE ()

HMIS RATING
 HEALTH: 3
 FLAMMABILITY: 0
 REACTIVITY: 0
 PERSONAL PROTECTION: c

SECTION II**HAZARDOUS INGREDIENTS**

MATERIAL OR COMPONENT	%	HAZARD DATA
Hydrofluoric Acid CAS 7664-39-3 UN 1790 Corrosive	10 - 15	2.5 mg/m ³ 3 ppm

SECTION III
PHYSICAL DATA

BOILING POINT: 212°F
 SPECIFIC GRAVITY: 1.035
 VAPOR PRESSURE: 110 (estimated)
 PERCENT VOLATILE BY VOLUME: 89%
 VAPOR DENSITY: 2.2 @ 70°F
 EVAPORATION RATE (H₂O = 1): <1
 SOLUBILITY IN WATER: Complete
 APPEARANCE AND ODOR: Colorless liquid, sharp pungent odor, fumes in the air.
 pH AS RECEIVED: 2.2

SECTION IV**FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (METHOD USED): Not Flammable
 FLAMMABILITY LIMITS: LEL UEL
 EXTINGUISHING MEDIA: Water, foam or dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should use self-contained breathing apparatus when fighting fires in which this product is present.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product, when in contact with certain metals or strong oxidizers, can generate hydrogen gas and explosive mixtures with air may form. Water spray is the most effective firefighting technique in this scenario.

SECTION V**HEALTH HAZARDS DATA**

THRESHOLD LIMIT VALUE: 3 ppm

EFFECTS OF OVEREXPOSURE: Hydrofluoric acid is extremely corrosive and irritating to the mucous membranes of the eyes and the respiratory tract. Prolonged skin contact can cause serious burns. Inhalation of acid fumes results in coughing, choking and inflammation of the respiratory tract. If irritation occurs additional ventilation may be needed. Do not ingest. Do not inhale. Do not get in eyes. Heavy concentrations of fumes may burn the eyes.

EMERGENCY FIRST AID PROCEDURES: Flush affected external areas with water for 15 minutes. Use neutralizer for acid products if available. Consult a physician immediately. If ingestion occurs, give water freely and consult a physician immediately.

SECTION VI

REACTIVITY DATA

STABILITY: STABLE:X UNSTABLE:
CONDITIONS TO AVOID: None
INCOMPATIBILITY (MATERIALS TO AVOID): Glass, concrete and other silicon bearing materials. Also carbonates, sulfides and cyanides.
HAZARDOUS DECOMPOSITION PRODUCTS: H₂ gas is generated in contact with reactive metals such as aluminum, zinc and magnesium.
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR:X

**SECTION VII
SPILL OR LEAK PROCEDURES**

SPILL RESPONSE PROCEDURES: Small spills may be neutralized with soda ash or lime slurry and then flushed with a large volume of water into the sewer system. Larger spills should be diked, absorbed on non-combustible absorbent such as kitty litter and then covered with bicarbonate of soda or an equal mixture of soda ash and slaked lime. Collect in a suitable container for disposal in accordance with appropriate regulations. Releases into surface waters may cause conspicuous foaming.

WASTE DISPOSAL METHOD: Collect in a suitable container and dispose of in accordance with local, state and federal regulations. Small spills may be absorbed on an appropriate media and disposed of in a landfill.

**SECTION VIII
SPECIAL PROTECTION INFORMATION**

EYE PROTECTION: Goggles or glasses and face shield
RESPIRATORY PROTECTION: Acid approved vapor mask
SKIN PROTECTION: Rubber gloves
OTHER PROTECTION: Splash resistant apron
VENTILATION RECOMMENDATION: Do not use in closed, unventilated spaces.

**SECTION IX
SPECIAL PRECAUTIONS**

HYGIENE PRACTICES IN HANDLING AND STORAGE: Inside storage that is dry and well ventilated. Do not store adjacent to oxidizing substances, common metals, alkali or active metals. Follow all recommended handling practices.

OTHER PRECAUTIONS: None

**SECTION X
PREPARER AND DISCLAIMER**

The information and recommendations contained herein are to the best of MAG-IT's knowledge and belief, accurate and reliable as of the date issued. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use of this product is beyond the control of MAG-IT, no guarantee, expressed or implied, is made by MAG-IT.

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DATE: 5 March 1996

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