MSDS No.: 00020301 Date: 08/30/2004 Supercedes: 10/30/2000

BRITE PLUS MX
(Aluminum & Stainless Steel Cleaner)

1. CHEMICAL PRODUCT AND COMPANY INDENTIFICATION

Product Identifier: Brite MX

General Use: Aluminum & Stainless Steel Cleaner (Ready-to-Use)

Product Description: Blue Liquid with Citrus Odor

MANUFACTURER

Dakota AG Innovations, LLC 40690 253rd Street Mitchell, South Dakota 57301 605-996-7800

EMERGENCY TELEPHONE NUMBERS:

ChemTrec (800) 424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Registry # Component Hydrofluoric Acid

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

EXPOSURE LIMITS 8 hrs TWA (ppm) ACGIH-TLV OTHER

Hydrofluoric Acid 3 ppm

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

This is a diluted material. The level of active ingredients in the product are either 1% or less than 1% by wt.

Liquid may cause eye irritation if it comes in contact with the eyes. Flush eyes with plenty of water for at least 15 minutes. Seek immediate medical attention if irritation persist

EYE CONTACT:

Liquid can cause irritation and burns of the eye and eye lids if splashed into the eyes. If the chemical is not removed immediately, permanent damage may result

SKIN CONTACT:

The mixture is corrosive. Prolonged skin contact is expected to cause drying and irritation with prolonged, repeated

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INGESTION:

May cause gastrointestinal irritation

Concentrations of active ingredients in the mixture are not sufficiently volatile nor in sufficient concentration to produce an inhalation hazard.

CHRONIC:

Prolonged or repeated exposure to lower concentrations of hydrofluoric acid may cause changes in the bones Exposure to low concentrations of vapors of hydrogen fluoride may also cause chronic irritation and congestion of the nose, throat, and bronchial tubes.

4. FIRST AID MEASURES

INHALATION:

ove to fresh air. Obtain medical attention if symptoms persist

EYE CONTACT:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lens. Do not use an eye ointment. Seek immediate medical attention.

SKIN CONTACT:

If the material gets on the skin, immediately flush the contaminated skin with water for a considerable time. If clothing is affected, remove clothing and flush skin with water. Apply a neutralising agent (calcium gluconate gel) to the affected area after the acid has been washed off. Seek medical attention.

DO NOT INDUCE VOMITING. If conscious, give person large quantities of water to dilute the material. Seek immediate medical attention

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Unknown Unknown **Autoignition Temperature:** Unknown

GENERAL HAZARD:

Product is water based and not expected to produce a significant fire hazard.

FIRE FIGHTING INSTRUCTIONS

Either allow fire to burn out under controlled conditions or extinguish with foam or dry chemical. Use water spray to cool fire exposed surfaces. Avoid spraying water directly into storage containers due to danger of boil over.

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FIRE FIGHTING EQUIPMENT:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. For small outdoor fires, which may be easily extinguished with a portable fire extinguisher, use of any SCBA

HAZARDOUS COMBUSTION PRODUCTS:

May emit corrosive funes or fluorides

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation and personal protective equipment.

Product is miscible with water. Material is biodegradable. Material spilled in limited quantities will naturally dilute and should result in no adverse effect.

RECOMMENDED DISPOSAL:

Mixture may have an acidic pH. Verify with local regulatory agencies concerning sewer disposal of waste material.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient STORAGE PRESSURE: Atmospheric

- (1) Keep container closed.
- (2) Store in a cool, well-ventilated place away from incompatible materials
- (3) Keep away from heat, sparks and flame.
 (4) Protect material from direct sunlight
- (5) Follow all MSDS/label warnings; even after container is emptied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide eyewash and hand washing facilities

PERSONAL PROTECTION:

None required, if airborne vapor concentrations are maintained below the component respective threshold limit values and there is no direct skin contact with the material.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: Not Available Vapor Density: Not Available Specific Gravity: Solubility in Water: 1.0 Evaporation Rate: Not Available Fully Miscible Not Available Freezing Point: pH: Acidic Odor: Pleasant Citrus Boiling Point: Not Available Not Available Appearance: Physical State: Liquid Viscosity:

10. STABILITY AND REACTIVITY

GENERAL:

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Reactive with oxidizing agents, glass and metals

HAZARDOUS DECOMPOSITION:

11. TOXICOLOGICAL INFORMATION

TOXICITY TO ANIMALS:

- (1) Acute oral toxicity (LD50): 560 mg/kg rat (EGBE)
 (2) Acute dermal toxicity (LD50): 1200 ml/kg guinea pig (EGBE)
 (3) Inhalation (4 hr) LD50: 486 ppm rat (EGBE)
- (4) LC50 (5 min): 4970 ppm rat (HF)
 (5) Acute oral (LD50): 1530 mg/kg rat (H₃PO₄)
- (6) Dermal LD50 rat: 2740 mg/kg (H3PO4)

CHRONIC EFFECTS ON HUMANS:

Prolonged or repeated exposure to hydrogen fluoride vapor may cause changes in the bones. Exposure to low concentraitons of vapors of hydrogen fluoride may also cause chronic irritation and congestion of the nose, throat and bronchial tubes.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not Available BOD5 and COD: Not Available

PRODUCTS OF BIODEGRADATION:

Products of biodegradation are less toxic than the product itself.

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13. DISPOSAL CONSIDERATIONS

This product has a corrosive pH and would require neutralization prior to disposal. Consult agencies prior to disposal.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)
PROPER SHIPPING NAME: None

15. REGULATORY INFORMATION

TSCA (Tocis Substance Control Act): Components of this product are listed on the TSCA inventory.

SARA Title III (Superfund Amendments and Reauthorization Act): Components of this product are listed under this statute.

CERCLA (Comprehensive Response Compensation and Liability Act): Components of this product are listed under this statute.

STATE CHEMICAL LISTS

Pennsylvania HSSF List - Components Listed (HF, H3PO4). New Jersey Right-to-Know Hazardous Substance List - Components Listed (HF, H3PO4) California Proposition 65 - No components Listed.

Massachusetts Substance List - Components Listed (HF, H3PO4)

16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION

Reactivity: 0

REVISION SUMMARY:

Created on August 30, 2004 by:

Cheryl Sykora, CIH, CSP LEGEND TECHNICAL SERVICES, INC. 775 Vandalia Street Saint Paul, Minnesota 55114 (651) 642-1150

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