

**SAFETY DATA SHEET****DAKOTA SOLUTIONS, IN**

40690 253rd Street  
Mitchell, SD 57301  
1-605-996-7800

**SECTION 1. Identification of the Product and of the Company**

**Product Name:** Brite Plus MX  
**UN/ID Number:** N/A  
**Recommended Use:** Aluminum and stainless steel cleaning  
**Restrictions on Use:** Use only as directed on label  
**Date of Issue:** 5/14/15

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**Emergency Telephone Numbers**  
Chemtrec: (800)-424-9300

**SECTION 2. Hazards Identification****EMERGENCY OVERVIEW**

\* Hazard Determination System (HDS): Health, Flammability, Reactivity

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**Hazard Category /GHS - Classification**

**Signal Word:** DANGER!

Skin Corrosion / Irritation	Category 1B
Serious Eye Damage / Irritation	Category 1

**Hazard Pictograms:****Hazard Statements:**

Harmful if swallowed  
Causes severe eye damage and irritation  
May cause skin corrosion and irritation

**Precautionary Statements - Prevention:**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fumes/vapor/mist/spray  
Contaminated clothing should be washed  
Wear protective clothes, clothing, and eye protection

**Precautionary Statements - Response:**

IF ON SKIN: Gently wash with plenty of soap and water. Immediately remove contaminated clothing.

seek medical attention if irritation persist.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Drink 2 to 3 glasses of water. Seek medical attention

IF INHALED: Remove victim to fresh air. Under normal use concentrations in the mixture are not sufficiently volatile nor in sufficient concentration to produce an inhalation hazard.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persist: seek medical attention.

**Precautionary Statements - Storage:** Keep out of reach of children in a safe location. Keep container closed.

**Precautionary Statements - Disposal:** Dispose of contents and container according to state/local/ federal disposal regulations.

**Hazards not otherwise classified (HNOC):** Prolonged or repeated exposure to lower concentrations of hydrofluoric acid may cause changes in the bones. Exposure to low concentration of vapors of hydrogen fluoride may also cause irritation and congestion of the nose, throat, and bronchial tubes.

### SECTION 3. Composition/Information on Ingredients

NAME OF INGREDIENT	CAS NUMBER	% BY WEIGHT
Hydrofluoric Acid	7664-39-5	less than 1%

### SECTION 4. First Aid Measures

#### First aid measures for different routes of exposure

**Eye Contact:** Rinse with plenty of water and seek medical attention. Remove contact lenses if easy to do. Seek medical attention.

**Skin Contact:** Immediately wash affected area with plenty of water and remove all contaminated clothing. If irritation persist seek medical attention

**Inhalation:** Move to fresh air and keep victim at rest. Call a physician.

**Ingestion:** If swallowed immediate response is required. Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink several glasses of water or milk. Seek medical attention.

**Most important symptoms/effects, acute and delayed:** Causes skin irritation and eye damage.

**Notes to Physicians:** Treat symptomatically.

### SECTION 5. Fire Fighting Measures

**Suitable extinguishing media:** Dry chemical, CO<sub>2</sub>, alcohol-resistant foam.

**Unsuitable Extinguishing media:** Not determined

**Special Hazard:** During fire hazardous gasses may form.

**Special protective equipment for fire-fighters:** As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Specific hazards arising from the chemical:** This material is not expected to present any fire or explosion hazards under prescribed use conditions.

### SECTION 6. Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Use proper protective equipment as required.

**Advice for emergency responders:** Use personal protective equipment as required.

#### Methods and materials for containment and cleaning up

**Methods for containment:** Absorb with earth, sand or other non combustible material and transfer to containers for later disposal.

**Methods for cleaning up:** Contain spillage, and then collect with noncombustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## SECTION 7. Handling and Storage

### Precautions for safe handling

**Advice on safe handling:** Use personal protective equipment as required. Keep container closed when not in use. Ensure all labels remain in good condition and adhered to the container. Keep out of reach of children

### Conditions for safe storage, including incompatibilities

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well ventilated place.

**Incompatible products:** Acids, strong oxidizers

## SECTION 8. Exposure Control / Personal Protection

### Exposure Guidelines

Chemical	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrofluoric Acid	3 ppm	3 ppm	not established

**Appropriate engineering controls:** Ensure adequate ventilation. Eye wash station and shower.

### Personal Protective Equipment

**Eye protection:** Use appropriate eye protection goggles when handling material.

**Hand protection:** Chemical protective gloves.

**Skin protection:** Chemical resistant gloves, wear proper clothing.

**Respiratory Protection:** No special protective equipment required with adequate ventilation.

## SECTION 9. Physical and Chemical Properties

### Appearance

**Physical state:** Liquid

**Form:** Liquid

**Color:** blue

**Odor:** Cirtus

**Odor threshold:** Not Available

**PH:** Acidic

**Melting point/freeze point:** No information available

**Flash Point:** Not applicable

**Evaporation rate:** No information available

**Flammability (solid, gas):**Not available

**Upper/lower flammability or explosive limits**

**Flammability limit - lower %:** Not available

**Flammability limit - Upper %:** Not applicable

**Explosive limit- lower %:** Not available

**Explosive limit- upper %:** Not available

**Vapor pressure:** Not determined or unknown

**Relative density:** Not available

**Water solubility:** No information available  
**Auto ignition temperature:** Not available  
**Decomposition temperature:** Not available  
**Specific gravity:** 1.00

### SECTION 10. Stability and Reactivity

**Reactivity:** The product is stable and non reactive under normal conditions of use, storage and transport.  
**Chemical stability:** Material is stable under normal conditions.  
**Possibility of hazardous reactions:** Contact with incompatible materials  
**Conditions to avoid:** Contact with incompatible materials.  
**Incompatible materials:** Oxidizing agents, glass and metals.  
**Hazardous decomposition products:** None.

### SECTION 11. Toxicological information

Chemical	LD 50 Acute Oral Toxicity	LD 50 Acute Dermal Toxicity	Inhalation
Hydrofluoric Acid 7664-39-5	560 mg/kg (rat)	1200 mg/kg guinea pig (EGBE)	(4hr) 486 ppm rat(HF)
Hydrofluoric Acid 7664-39-5	LD 50 Oral 1530 mg/kg rat H3PO4	LD 50 Dermal 2740 mg/kg H3PO4	LC 50 (5min) 4970 ppm rate rat(HF)

#### Information on likely routes of exposure

**Ingestion:** Harmful if swallowed.  
**Inhalation:** Avoid breathing vapors or mist.  
**Skin contact:** Causes burns, redness, irritation.  
**Eye contact:** Direct contact to eyes causes serious eye damage, redness, watering and blurry vision.

#### Information on Physical, Chemical and Toxicological Effects

**Symptoms** Please see section 4 of this SDS for symptoms

#### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

**Carcinogenicity** The materials in this product are not known to be carcinogenic.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrofluoric Acid	No	No	No	No

**ACGIH ( American Conference of Governmental Industrial Hygienists)**

No

**IARC (International Agency for Research on Cancer)**

No

**OSHA Occupational Safety and Health Administration of the US Department of Labor**

No

**NTP (National Toxicology Program)**

No

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**STOT - Single Exposure**

None known

STOT - Repeated Exposure      None known

Numerical Measures of Toxicity      None Known

## SECTION 12. Ecological Information

### Eco toxicity

Chemical	Toxicity to Fish	Toxicity to Algae	Toxicity to Invertebrates
Hydrofluoric Acid	LC 50 2.6 mg/l, 96 h	EC 50 42.3 mg/l, 72 h	Not Established

**Persistence and degradability:** Readily biodegradable.

**Bio accumulative potential:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** No other adverse environmental effects are expected from this product.

## SECTION 13. Disposal Considerations

### Waste treatment

**Disposal Instructions:** Dispose of contents in accordance with local/regional/national/international regulations.

**Waste from residues / unused products:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

### US EPA Waste Number

Chemical Name	RCRA	RCRA-	RCRA-	RCRA-
		Basis for Listing	D Series Waste	U Series Wastes
Hydrofluoric Acid      7664-39-3	U134	N/A	N/A	U134

### California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Hydrofluoric Acid      7664-39-3	Toxic / Corrosive

## SECTION 14. Transportation Information

**DOT** Proper Name: Compound Cleaning Liquid (Not Regulated)  
 Hazard Class: N/A  
 UN Number: N/A  
 Packing Group: II

**IATA** Proper Name: Compound Cleaning Liquid (Not Regulated)  
 Hazard Class: N/A  
 UN Number: N/A  
 Packing Group: II

**IMDG** Proper Name: Compound Cleaning Liquid (Not Regulated)  
 Hazard Class: N/A  
 UN Number: N/A  
 Packing Group: II

### SECTION 15. Regulatory Information

**International Inventories:** Not determined

#### US Federal Regulations

##### SARA 313

Chemical Name	CAS NUMBER	% BY WEIGHT	SARA 313- Threshold Value%
Hydrofluoric Acid	6834-92-0	Less than 1%	1.0%

##### CWA (Clean Water Act)

Chemical Name	CAS NUMBER	CWA - Reportable Quantities	CWA - Hazardous Substances
Hydrofluoric Acid	6834-92-0	100 lbs.	X

##### CERCLA

Chemical Name	Hazardous Substances RQ	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrofluoric Acid	100 lbs.	100 lbs.	RQ 100 lbs. final RQ
6834-92-0			RQ 45.4 kg. final RQ

##### US Regulations

Chemical Name	California Proposition 65
No material components listed	

##### US State Right -to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrofluoric Acid	X	X	X
6834-92-0			

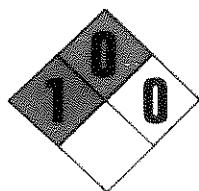
### SECTION 16. Other Information

Issue Date: 05-14-15

Revision Date: None

Version: #1

NFPA rating



**Disclaimer:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

END OF SAFETY DATA SHEET

