# Matrix Rust Eradicator

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Matrix Rust Eradicator
**Common Name:** Rust Removing Spotter
**SDS Number:** X619982SDS
**Product Code:** MX-RE-RA
**Revision Date:** 8/22/2024
**Version:** 2
**Internal ID:** X619983
**Product Use:** Use only as directed

**Supplier Details:** Jon-Don, LLC
400 Medinah Road
Roselle, IL 60172

**Phone:** 800-556-6366
**Web:** www.jondon.com
**Emergency:** INFOTRAC 1-800-535-5053 (North America) 1-352-323-3500 (International)

## 2 HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Health, Acute toxicity, 3 Oral
Health, Skin corrosion/irritation, 1 B

### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word: DANGER**

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

H301 - Toxic if swallowed
H314 - Causes severe skin burns and eye damage

**GHS Precautionary Statements:**

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/ physician.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P262 - Do not get in eyes, on skin, or on clothing.
P264 - Wash ... thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362 - Take off contaminated clothing.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

## 3 COMPOSITION/INFORMATION OF INGREDIENTS

This material is considered hazardous by the OSHA Hazardous Communication Standard (29 CFR 1910.1200)

Chemical Ingredients

| CAS# | % | Chemical Name |
|---|---|---|
| 1341-49-7 | 10-20% | Ammonium bifluoride |

* The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4 FIRST AID MEASURES

**Inhalation:** If symptoms develop, move victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, obtain medical attention.

**Skin Contact:** Get medical attention if needed. Promptly flush skin with water until all chemical is removed. If irritation persists get medical attention. Remove contaminated clothing immediately.

**Eye Contact:** Do not rub affected area. Immediately flush eyes with large amounts of water for at least 15 minutes keeping eyes wide open and lifting eyelids occasionally to facilitate irrigation. After initial flush remove contacts, if present, and continue to flush for 15 minutes. Seek immediate medical attention.

**Ingestion:** Do not induce vomiting unless directed by a physician. Seek immediate medical attention. Rinse mouth with water. Drink large quantities of water if person is conscious and alert. Never give water to an unconscious person.

NOTES TO PHYSICIAN:
HF-Antidote Gel is recommended as treatment for injuries from hydroflouric acid.
If skin irritation occurs: Immediately apply calcium gluconategel 2.5% and massage into the affected area using rubber gloves. Continue to massage while repeatedly applying gel for 15-minutes after pain is relieved

## 5 FIRE FIGHTING MEASURES

**Flash Point:** Not flammable

Use extinguishing measures that are appropriate to local circumstances and surrounding environment. Wear self contained breathing apparatus and other protective clothing.

## 6 ACCIDENTAL RELEASE MEASURES

Evacuate personnel from area. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing.

Use personal protective equipment. Ventilate area and wash spill site after material pickup is complete.

## 7 HANDLING AND STORAGE

**Handling Precautions:** Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene
Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

**Storage Requirements:** Keep in a cool ventilated area. Keep container tightly closed. Keep out of reach of children

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Ammonium bifluoride cas#:(1341-49-7) [1020] : No data.

**Personal Protective Equipment:** Ammonium bifluoride cas#:(1341-49-7) [1020]

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-

face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril (KCL 740 / Aldrich Z677272, Size M) Splash contact data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**Ammonium bifluoride cas#:(1341-49-7) [1020]**

**Components with workplace control parameters**

**TWA 2.5 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z- 1 Limits for Air Contaminants**

**TWA 2.5 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z2**

**TWA 2.5 mg/m3 USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000**

**TWA 2.5 mg/m3 USA. ACGIH Threshold Limit Values (TLV)**

**TWA 2.5 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z- 1 Limits for Air Contaminants**
**CAS number varies with compound**

**TWA 2.5 mg/m3 USA. Occupational Exposure Limits (OSHA) - Table Z2**
**Z37.28- 1969**

**TWA 2.5 mg/m3 USA. ACGIH Threshold Limit Values (TLV)**
**Bone damage Fluorosis Substances for which there is a Biological Exposure Index or Indices (see BEI section) Not classifiable as a human carcinogen varies**

**TWA 2.5 mg/m3 USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000**

## 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Appearance:** | Clear Colorless Liquid | | |
| **Physical State:** | Liquid | **Odor:** | Mild |
| **Odor Threshold:** | No data available | **Solubility:** | Completely Soluble |
| **Spec Grav./Density:** | 1.043 +/- .005 | **Percent Volatile:** | 0% |

| | | | |
|---|---|---|---|
| **Viscosity:** | No data available | **Freezing/Melting Pt.:** | No data available |
| **Boiling Point:** | No data available | **Flash Point:** | No data available |
| **Partition Coefficient:** | No data available | **Vapor Density:** | No data available |
| **Vapor Pressure:** | No data available | **Auto-Ignition Temp:** | No data available |
| **pH:** | 5.0 +/-.5 | **UFL / LFL:** | No data available |
| **Evap. Rate:** | Similiar to water | | |
| **Decomp Temp:** | No data available | | |

## 10 STABILITY AND REACTIVITY

| | |
|---|---|
| **Reactivity:** | No data available |
| **Chemical Stability:** | Product is stable under normal conditions. |
| **Conditions to Avoid:** | Avoid heat, sparks, flames and direct sunlight |
| **Materials to Avoid:** | Strong Bases, Strong Acids, Silicate containing materials (glass, cement...), Metals. |
| **Hazardous Decomposition:** | Thermal decomposition can lead to the release of irritating gases and vapors. Hydrogen Flouride and Ammonia fumes, nitrogen oxide |
| **Hazardous Polymerization:** | Not Known |

## 11 TOXICOLOGICAL INFORMATION

**Ammonium bifluoride cas#:(1341-49-7) [1020]**

**Information on toxicological effects**

**Acute toxicity:**
**Oral LD50 no data available**
**Inhalation LC50**
**Dermal LD50**
**Other information on acute toxicity**

**Skin corrosion/irritation: no data available**

**Serious eye damage/eye irritation: no data available**

**Respiratory or skin sensitisation: no data available**

**Germ cell mutagenicity: no data available**

**Carcinogenicity:**
**IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Ammonium bifluoride)**
**NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.**
**OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.**

**Reproductive toxicity: no data available**

**Teratogenicity: no data available**

**Specific target organ toxicity - single exposure (Globally Harmonized System):**
**no data available**

**Specific target organ toxicity - repeated exposure (Globally Harmonized System):**
**no data available**

**Aspiration hazard: no data available**

**Potential health effects: Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion Toxic if swallowed. Skin May be harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns.**

**Signs and Symptoms of Exposure: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea**

**Synergistic effects: no data available**

**Additional Information:**

**RTECS: BQ9200000**

## 12 ECOLOGICAL INFORMATION

**Ammonium bifluoride cas#:(1341-49-7) [1020]**

**Information on ecological effects**

**Toxicity: no data available**

**Persistence and degradability: no data available**

**Bioaccumulative potential: no data available**

**Mobility in soil: no data available**

**PBT and vPvB assessment: no data available**

**Other adverse effects: no data available**

## 13 DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.**

**Contaminated packaging: Dispose of as unused product.**

## 14 TRANSPORT INFORMATION

UN2817, Ammonium hydrogendifluoride, solution, 8(6.1), PG III
**ERG = 154**




## 15 REGULATORY INFORMATION

**[%] RQ (CAS#) Substance - Reg Codes**
**----------**
**[10-20%] RQ(100LBS), Ammonium bifluoride (1341-49-7) CERCLA, CSWHS, MASS, PA, TSCA, TSCAACTV**

**International Inventories**

| | |
|---|---|
| **TSCA** | Complies |

| | |
|---|---|
| **DSL/NDSL** | Complies |
| **EINECS/ELINCS** | - |
| **ENCS** | - |
| **IECSC** | - |
| **KECL** | - |
| **PICCS** | - |
| **AICS** | - |

**Legend:**
**TSCA** - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section 8(b) Inventory.
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances **IECSC** -
China Inventory of Existing Chemical Substances **KECL** - Korean
Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances

## U.S. Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | Weight-% | SARA 313 Threshold Values-% |
|---|---|---|
| Ammonium bifluoride<br>1341-49-7 | 10-20 | 1 |

### Clean Water Act

This product contains substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| Chemical Name | CWA-Reportable Quantities | CWA-Toxic Pollutants | CWA-Priority Pollutants | CWA-Hazardous Substances |
|---|---|---|---|---|
| Ammonium bifluoride<br>1341-49-7 | 100 lb | - | - | X |

### CERCLA

This material, as supplied, contains one or more substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

| Chemical Name | Hazardous Substance RQ | Extremely Hazardous Substances RQs | RQ-Final |
|---|---|---|---|
| Ammonium bifluoride<br>1341-49-7 | 100lb | x | 100 lb/45.4 kg |

### U.S. State Right-to-Know Regulations

This Product contains substances regulated by state right-to-know regulations

| Chemical | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Ammonium bifluoride<br>1341-49-7 | x | x | x |

### California Proposition 65

This product does not contain any Proposition 65 chemicals.
**This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.**

**Regulatory Code Legend**
**----------**
**CERCLA = Superfund clean up substance**
**CSWHS = Clean Water Act Hazardous substances**

**MASS = MA Massachusetts Hazardous Substances List**
**PA = PA Right-To-Know List of Hazardous Substances**
**RQ = Reportable Quantity**
**TSCA = Toxic Substances Control Act**
**TSCAACTV = TSCA Active Chemicals**

## 16 OTHER INFORMATION

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

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