

Safety Data Sheet

Issue Date 01-Oct-2013 Revision/Review Date: 09-Dec-2019 Version 1.1

1. IDENTIFICATION

Product Identifier

Product Name Maxim Rust Removing Sour

Other Means of Identification

Product Code 440400

Recommended use of the Chemical and Restrictions on Use

Recommended Use Laundry destainer. For industrial use.

Details of the Supplier of the Safety Data Sheet

Midlab, Inc. 140 Private Brand Way Athens, TN 37303

Emergency Telephone Number

Company Phone Number Phone: 1-423-337-3180

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Colorless Physical State Liquid Odor None

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 5
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Corrosive to Metals	Category 1

Signal Word

Danger

Hazard Statements

Harmful if swallowed. May be harmful in contact with skin Toxic if inhaled.

Causes severe skin burns and eye damage.

May be corrosive to metals.

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection.

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Keep only in original container.



IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Call a POISON CENTER or doctor/physician if you feel unwell.

SPECIFIC MEASURES: Remove from exposure and apply calcium gluconate gel 2.5%.



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IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. IN CASE OF SPILL: Absorb spillage to prevent material damage.

Precautionary Statements - Storage

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Store in corrosive resistant container with a resistant inner liner.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Other Hazards

None known.

Unknown Acute Toxicity

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Hydrofluoric Acid	7664-39-3	5-10
Ammonium Bifluoride	1341-49-7	3-7

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret**

4. FIRST-AID MEASURES

First Aid Measures

General Advice If exposed or concerned: Get medical advice/attention. When seeking medical attention,

emphasize exposure to hydrofluoric acid.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove and discard contact lenses. Get immediate medical advice/attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated

clothing. Wash contaminated clothing before reuse. Get medical attention immediately.

Inhalation Remove to fresh air. Get medical attention immediately.

Rinse mouth. Drink plenty of water. Do not induce vomiting. Never give anything by mouth Ingestion

to an unconscious person. Seek medical attention immediately.

Most Important Symptoms and Effects

Symptoms Irritation and corrosive burns to mouth, throat, and stomach. Corrosive to eyes. Prolonged

contact may even cause severe skin irritation or mild burn. May cause hypocalcemia. Can

also cause bone and joint changes in humans (Fluorosis).

Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician This product contains hydrofluoric acid.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO2). Dry chemical. Foam.

Unsuitable Extinguishing Media

Not determined.

Specific Hazards Arising from the Chemical

Contents are corrosive and all personal contact must be avoided.

Protective Equipment and Precautions for Firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required.

Environmental Precautions Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Collect spillage. Collect in a clean, dry waste container for disposal. Dilute with water and

clean up.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Wash thoroughly after handling. Use personal protection recommended in Section 8.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Use only in

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well-ventilated areas.

Conditions for Safe Storage, including any Incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and

out of reach of children. Keep only in original container. Keep from freezing.

Incompatible Materials Acids. Bases. Oxidizing agents. Uncontrolled contact with water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrofluoric Acid 7664-39-3	TWA: 0.5 ppm F TWA: 2.5 mg/m ³ F S* Ceiling: 2 ppm F	TWA: 3 ppm F TWA: 2.5 mg/m³ F TWA: 2.5 mg/m³ dust (vacated) TWA: 3 ppm F (vacated) TWA: 2.5 mg/m³ (vacated) STEL: 6 ppm F	IDLH: 30 ppm Ceiling: 6 ppm 15 min Ceiling: 5 mg/m ³ 15 min TWA: 3 ppm TWA: 2.5 mg/m ³
Ammonium Bifluoride	TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³	-

Appropriate Engineering Controls

Engineering Controls Ventilation systems. Eyewash stations. Showers.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Splash goggles or safety glasses.

Skin and Body ProtectionRubber, Nitrile, PVC, or other chemically resistant skin protection to prevent contact.

Respiratory Protection Ensure adequate ventilation, especially in confined areas.

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General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State Liquid

Appearance Clear Odor None

Color Colorless **Odor Threshold** Not determined

Property Values Remarks • Method

pН 1.0-1.5 **Melting Point/Freezing Point** Not known

Boiling Point/Boiling Range 100.5 °C / 213 °F **Flash Point** Not applicable **Evaporation Rate** Not determined Flammability (Solid, Gas) n/a-liquid **Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined Vapor Pressure Not determined **Vapor Density** Not determined

Specific Gravity 1.03

Water Solubility Completely soluble @ 25 °C (77 °F)

Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined Not determined **Dynamic Viscosity Explosive Properties** Not determined **Oxidizing Properties** Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children. Keep from freezing.

Incompatible Materials

Acids. Bases. Oxidizing agents. Uncontrolled contact with water.

Hazardous Decomposition Products

Thermal decomposition may release toxic ammonia fumes. It may generate toxic fluorides and hydrogen fluorides. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns. •

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Inhalation Toxic if inhaled.

Ingestion Harmful if swallowed.

Component Information

ĺ	Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
	Hydrofluoric Acid 7664-39-3	LD100 = 80 mg/kg (Guinea Pig) (2% solution)	-	= 850 mg/m ³ (Rat)1 h = 1276 ppm (Rat)1 h
	Ammonium Bifluoride 1341-49-7	= 31 mg/kg (Rat) (Intraperitoneal)	-	= 1276 ppm (Rat)1 h

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 Not a human carcinogen.

Numerical Measures of Toxicity

Not determined

Unknown Acute Toxicity None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrofluoric Acid 7664-39-3	-	= 51 mg/L (96hr) Salmo gairdneri	-	= 10.5 mg/L (96hr) Mysidopsis
Ammonium Bifluoride 1341-49-7	-	> 100 mg/L (96hr)	-	-

Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Chemical Name	Partition Coefficient
Hydrofluoric Acid 7664-39-3	-1.4

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes 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 - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes

Hydrofluoric Acid 7664-39-3	U134			U134
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14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN3264, Corrosive Liquid, Acidic, Inorganic, NOS (Containing Hydrofluoric Acid and

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Ammonium Bifluoride), 8, PG II

IATA

IMDG

Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

Canada – Domestic Substances List (DSL) TSCA (Toxic Substances Control Act) All ingredients are listed or exempt. All ingredients are listed or exempt.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrofluoric Acid	100 lb	100 lb	RQ 100 lb final RQ
7664-39-3	100 10	100 10	RQ 45.4 kg final RQ
Ammonium Bifluoride	1000lb	100 lb	RQ 100 lb final RQ
1341-49-7	TOOOID	di 001	RQ 45.4 kg final RQ

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesReactive HazardYes

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Hydrofluoric Acid	7664-39-3	5-10	1.0
Ammonium Bifluoride	1341-49-7	3-7	1.0

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrofluoric Acid 7664-39-3	100 lb			Х

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	State List
Hydrofluoric Acid 7664-39-3	MA, NJ, PA
Ammonium Bifluoride 1341-49-7	MA, NJ, PA

AZ – Arizona Ambient Air Quality Guidelines CT – Connecticut Hazardous Air Pollutants

CA - California Director's List of Hazardous Substances

CAP65 – California Prop 65 FL – Florida Substances List

ID - Idaho Non-Carcinogen Toxic Air Pollutants

IL – Illinois Toxic Air Contaminate

MA - Massachusetts Right to Know List

MN - Minnesota Hazardous Substances List

NJ – New Jersey Right to Know List

PA - Pennsylvania Right to Know List

RI – Rhode Island Hazardous Substances List

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16. OTHER INFORMATION

NFPA **Health Hazards** Flammability Instability **Special Hazards** Not determined Not determined Not determined Not determined **Health Hazards Personal Protection** HMIS **Flammability Physical Hazards** Not determined 3

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Revision Note Version 1.1 Updated Section 2

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its 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 only 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.

Keep Out of Reach of Children. For Industrial and Institutional Use Only.

End of Safety Data Sheet

^{*}Denotes changes from last version.