

The ServiceMaster Company  
One ServiceMaster Way  
Downers Grove, IL 60515

MATERIAL SAFETY DATA SHEET  
(Complies with 29 CFR 1910.1200)  
1/800/333-6678

ServiceMaster Rust Remover

Page 1 of 2

**SECTION I**

Product (Trade) Name: ServiceMaster Rust Remover  
Manufacturer's Name: The ServiceMaster Company  
Address: One ServiceMaster Way, Downers Grove, IL 60515  
Emergency Telephone No: 1/800/333-6678  
Chemical Name and Synonyms: N/A  
Chemical Family: N/A  
Formula: N/A  
DOT Hazard Class: Consumer Commodity, ORM-D  
DOT ID Number: None

**SECTION II -- HAZARDOUS INGREDIENTS**

Ingredient	C.A.S. No.	Wt. by %	Listed As	
			OSHA PEL	ACGIH TLV-TWA
Ammonium bifluoride	1341-49-7	25	2.5mg/m <sup>3</sup>	2.5mg/m <sup>3</sup>
Oxalic Acid	144-62-7	1-5	N/E	N/E
Hydroxyacetic acid	79-14-1	4-10	N/E	N/E
Sulfamic acid	5329-14-6	4-10	N/E	N/E

\* See Section V - Health Hazard Data  
In accordance with OSHA's Hazard Communication Standard, ingredients listed in this section are those identified as being hazardous and present at concentrations greater than 1%, or greater 0.1% if the substance is a listed carcinogen. Information concerning ingredients identified as "Proprietary" will be made available as provided in 29 CFR 1910.1200(f).

**SECTION III -- PHYSICAL DATA**

Boiling Point (°F): 212  
Vapor Pressure (mm hg): N/D  
Vapor Density (Air = 1): N/D  
Solubility in Water: Complete  
Appearance and Odor: Clear, colorless liquid with sharp acid color.

**SECTION IV -- FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Tag, Closed Tester): N/A  
Flammable Limits: LEL N/A, UEL N/A

Extinguishing Media: Water fog, water stream, CO<sub>2</sub>, dry chemical, foam.  
Special Fire Fighting Procedures: Wear self-contained breathing apparatus.  
Unusual Fire and Explosion Hazards: N/A

**SECTION V -- HEALTH HAZARD DATA**

Primary Route(s) of Exposure: Skin contact.  
Threshold Limit Value: N/D for mixture. See Section II for TLV's of hazardous ingredients.  
Effects of Overexposure:  
- Acute: By Inhalation: Respiratory tract irritation, coughing, choking, and chills.  
By Eye Contact: Corrosive. Speed is important for beginning treatment. Contact causes severe burn which may not be immediately visible or painful which can cause blindness.  
By Ingestion: Corrosive to mucous membranes of mouth, esophagus, and stomach; causes intestinal pain and vomiting.  
By Skin Contact: Corrosive. Speed is important for beginning treatment. Contact causes burn which may not be immediately visible or painful.  
- Chronic: Prolonged or repeated inhalation of fluorides over an extended period of time can cause a rare condition known as fluorosis, usually only seen in fluoride miners, which gradually causes bone weakness and tooth mottling.  
- Medical Conditions Generally Aggravated by Exposure: This product should be handled as a strong acid. Because of the short-term (acute) effects of exposure (burns, blindness, etc.), there are

**SECTION V - HEALTH HAZARD DATA (CONTINUED)**

no pre-existing medical conditions which are aggravated by exposure.  
Emergency and First Aid Procedures:  
For Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Give oxygen. Get medical attention.  
For Eye Contact: Immediately and constantly flush eyes (holding eyelids open) with plenty of water for at least 15 minutes or until medical treatment is received. Get emergency medical attention. DO NOT induce vomiting. Give large quantities of water or milk. Do not give anything by mouth to an unconscious person. Get emergency medical attention.  
For Skin Contact: Immediately and constantly flush skin with plenty of water for at least 15 minutes or until medical treatment is received. Pay particular attention to flushing skin under nails. While flushing, remove contaminated clothing and shoes and destroy. Get emergency medical attention.  
NOTE TO PHYSICIAN: Follow water flushing by irrigation with a 1% solution of calcium gluconate in physiologic saline solution. After irrigation, use 1% calcium gluconate in saline as eye drops. Follow-up care by an ophthalmologist is suggested.

**SECTION VI -- REACTIVITY DATA**

Stability: Stable.  
Conditions to Avoid: Open flames, sparks, ignition sources.  
Incompatibility (Materials to Avoid): Strong alkalis, strong oxidizers. Do not mix or contaminate with any other materials. Do not allow contact with glass, porcelain, enamelware, metallic-weighted fabrics or mild metals such as mild steel or aluminum. Do not allow contact with laundry bleaches. Hazardous Decomposition Products: At decomposition, emits highly corrosive fluoride fumes. Contact with mild metals such as steel and aluminum may generate explosive hydrogen gas. Hazardous Polymerization: Will not occur.

**SECTION VII -- SPILL OR LEAK PROCEDURES**

Steps To Be Taken In Case Material Is Released Or Spilled: Cover spill with sodium bicarbonate solution or soda ash/lime mixture (50/50); add water to make slurry; wash down chemical drain with excess water; rinse with soda ash solution.

Waste Disposal Method: Add to large volume of solution of soda ash/lime mixture; add neutralized solution to excess running water to chemical drain. Dispose of all waste in accordance with local, State, and Federal regulations.

Hazardous Waste Classification: D002

**SECTION VIII -- SPECIAL PROTECTION INFORMATION**

For Handling Product as Supplied:  
Respiratory Protection: Dust or mist mask is only necessary if there are airborne contaminants and the level of those contaminants exceeds safe levels.  
Ventilation: Use with adequate ventilation.  
Protective Gloves: Chemical-resistant synthetic rubber gloves.  
Eye Protection: Chemical splash goggles.  
Other Protective Equipment: Apron or other impervious clothing as needed to prevent skin contact.

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Page 2 of 2

**SECTION IX - SPECIAL PRECAUTIONS**

Precautions to be taken in handling and storing: Wash thoroughly after handling. Do not get in eyes, on skin, or clothing. Do not breathe dust, vapor, mist, gas. Keep container closed. Store in tightly closed containers. Empty container may contain hazardous residues. Rinse bottle in running water before and after each application of product to prevent toxic and possibly corrosive residue from building up on the container's surface.

Other precautions: Do not transfer from the original container.

Prepared By: Kevin T. Wagner  
Title: Occupational Safety and Health Coordinator

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