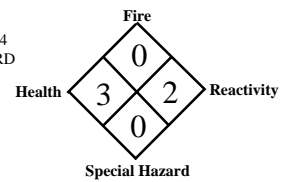




MATERIAL SAFETY DATA SHEET

NFPA Designation 704
 DEGREE OF HAZARD
 4 = EXTREME
 3 = HIGH
 2 = MODERATE
 1 = SLIGHT
 0 = INSIGNIFICANT



May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910, 1200. Standard must be consulted for specific requirements.

U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration (Non-Mandatory Form) Form-Approved OMB No. 1218.0072

CHEMICAL NAME RUST REMOVER	PRODUCT USAGE Fabric Spotting Agent
---	---

SECTION I

Manufactured For: Steam Way® International	Emergency Telephone Number: (303) 355-3566
Address: 4550 Jackson Street	Telephone Number For Information: (303) 355-3566
City, State, Zip: Denver, Colorado 80216	Date Prepared: January 17, 1997 Updated: July 1, 1999

SECTION II - Hazardous Ingredient Information

Hazardous Components (If component is non-hazardous, specify by * designation) (Specific Chemical Identity: CAS#)	% optional
Hydrofluoric Acid (7664-39-3) 3ppm (OSHA PEL) CL 3ppm (ACGIH TLV)	<2
Phosphoric Acid (7664-38-2) 1mg/m3 (OSHA PEL) 1mg/m3 (ACGIH TLV)	<3

SECTION III - Physical/Chemical Characteristics

Boiling Point	Approximately 150°F	Specific Gravity (H ₂ O = 1)	@25°C 1.015
Vapor Pressure (mm Hg.)	N.A.	Melting Point	N.A.
Vapor Density (Air=1)	Heavier than air	Evaporation Rate (Butyl Acetate=1)	Slower than ether
Solubility Rate	Complete	Percent, Volatile by Volume (%)	N.A.
Appearance and Odor	Clear liquid with mild pungent odor.		

SECTION IV - Fire and Explosion

Flash Point (Method Used) N/A (liquid is not flammable)	Flammable Limits N.I.	LEL N.I.	UEL
Extinguishing Media Carbon Dioxide, dry chemical, foam or water, Class A, BC, or ABC fire extinguishers.			
Special Fire Fighting Procedures Pressure demand self-contained respiratory equipment. There is a latent fire or explosion hazard when in contact with metals due to generation of hydrogen gas. Wear full protective clothing with mask with ammonia vapor canister.			
Unusual Explosion Hazard Pressure may develop in closed containers if temperatures over 150°F are achieved. Water may be used to cool adjacent containers.			

SECTION V - Reactivity Data

<u>Stability</u>	<u>Unstable</u>		<u>Conditions to Avoid</u>
			Contact with metals may cause generation of explosives or flammable hydrogen.
	<u>Stable</u>	X	

Incompatibility (Materials to Avoid)

Bases and mostmetals. Oxidizing agents, flourine, arsenic trioxide, phosphorous pentoxide

Hazardous Decomposition or by-Products

Hydrogen gas, hydrogen fluoride gas, CO, CO2, and smoke may be formed.

<u>Hazardous Polymerization</u>	<u>May Occur</u>		<u>Conditions to Avoid</u>
	<u>Will Not Occur</u>	X	

SECTION VI - Health Hazard Data

Health Hazards (Acute and Chronic): Rout(s) of Entry/Signs and Symptoms of Exposure Routes of entry are skin, inhalation, and ingestion.

Contact with eyes or skin will cause severe burns. With eyes, the possibility of impairment of vision. Vapor is irritating to the lungs.

Emergency and First Aid Procedures

CAUTION: Contains Hydrofluoric Acid. Can cause severe burns which may not be immediately painful or visible. May be fatal if inhaled or swallowed. Always wear proper gloves, goggles, aprons and boots when handling this product. In case of contact, follow the first aid instructions as listed. **Hazardous liquid and vapor** causes severe burns which may not be immediately painful or visible. May be fatal if inhaled or swallowed. Here are a few cautionary tips: 1) Do not get in eyes, on skin, or on clothing; 2) Do not breathe the vapor or mist; 3) use only with adequate ventilation; 5) Keep container closed; 6) Keep out of the reach of children; 7) Store out of the sun and away from heat; 8) Open carefully to relieve possible internal pressure before completely removing closures; 9) When opening container, always wear rubber gloves, goggles, aprons, boots. Vapors pressure on the skin may cause severe burns. If vapor pressure comes in contact with skin, flush immediately with copious amounts of water; 10) In case of spillage, flush immediately with water and neutralize with lime and flush again with water; 11) In case of fire, use water spray to extinguish the fire. **FIRST AID:** In case of contact or suspicion of contact, prompt attention is absolutely necessary. A special note to physicians: refer to section No. 3 in Chemical Safety Data Sheet SD-25. In case of contact with skin, immediately flush with large quantities of cool water while removing contaminated clothing and shoes until all acid is removed, paying particular attention to skin under nails. Follow by applying iced alcoholic or aqueous benzalkonium chloride solution (See Section 10.3 in Chemical Safety Data Sheet SD-25 for preparation, ice 70% alcohol or an ice-cold saturated solution of magnesium sulfate (Epsom Salt). If these solutions are not available, continue washing in cool water or until medical attention is obtained. Wash clothing before reuse. In case of contact with eyes, immediately flush with cool water for 15-30 minutes. If inhaled, immediately carry patient to fresh air and administer oxygen as soon as possible. If not breathing, give artificial respiration, preferably mouth-to-mouth. If swallowed, avoid causing vomiting. Give immediately, large quantities of water, milk, milk of magnesia or eggs beaten with water. Never give anything by mouth to an unconscious person.

Medical Conditions Generally Aggravated by Exposure

See health hazards above.

SECTION VII - Precautions For Safe Handling And Use

Steps to be taken in Case Material is Released or Spilled

Small quantities may be flushed with copious quantities of water; in case of larger spills, contain liquid. Use limestone, lime or soda ash to cautiously neutralize.

Waste Disposal Method

Dispose of in accordance with all federal, state and local regulations after neutralizing.

Precautions To Be Taken In Handling And Storing

Prevent all contact with eyes or skin. Avoid breathing irritating vapors. Storage between 40°F and 80°F are recommended. Store only in approved containers. (Avoid glass and most metals).

Other Precautions

Do not take internally or inhale vapors. Avoid eye contact.

SECTION VIII - Control Measures

Respiratory Protection (Specific Type)

Use NIOSH approved respiratory equipment. For emergencies use a self-contained breathing apparatus.

<u>Ventilation</u>	<u>Local Exhaust</u>	<u>Special</u>
		Keep vapor below TLV's in Section II at all times.
	<u>Mechanical (General)</u>	<u>Other</u>

Protection Gloves

Rubber gloves

Eye Protection

Chemical safety goggles and full face shield.

Other Protective Clothing or Equipment

Rubber boots, apron, gauntlets, and/or rubber acid suit.

Work/Hygienic Practices

To the best of our knowledge, the information contained herein is accurate. However, neither Steam Way® International, Inc. its suppliers, nor its distributors assumes any liability whatsoever for the accuracy or completeness of the information. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards may be described herein, we cannot guarantee that these are the only hazards which exist. Information herein is given in good faith, but no warranty, expressed or implied, is made.