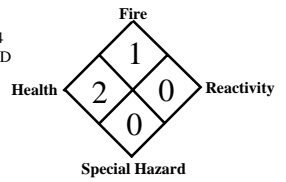




MATERIAL SAFETY DATA SHEET

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 Subtractor	PRODUCT USAGE Fabric Spotting Agent For Rust
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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: March 1, 1999 Updated: July 1, 1999

SECTION II - Hazardous Ingredient Information

Hazardous Components (If component is non-hazardous, specify by * designation) (Specific Chemical Identity: CAS#)	% optional
Oxalic Acid (C.A.S.# 144-62-7) (ACGIH TLV 0.27ppm)	<15%
2-Butoxyethanol (C.A.S. # 111-76-2) (ACGIH TLV 25ppm skin)	<5%

SECTION III - Physical/Chemical Characteristics

Boiling Point	Approximately 212°F	Specific Gravity (H ₂ O = 1)	@25°C	1.020
Vapor Pressure (mm Hg.)	N.A.	Melting Point		N.A.
Vapor Density (Air=1)	N.A.	Evaporation Rate (vs. H ₂ O)		About the same
Solubility Rate	Complete	Percent, Volatile by Volume (%)		N.A.
Appearance and Odor	Clear liquid with mild solvent odor.			

SECTION IV - Fire and Explosion

Flash Point (Method Used)	>200°F	Flammable Limits	N.A.	N.A.	N.A.	LEL	UEL
Extinguishing Media	Carbon Dioxide, dry chemical, foam or water, Class A, BC, or ABC fire extinguishers.						
Special Fire Fighting Procedures	none						
Unusual Explosion Hazard	none						

SECTION V - Reactivity Data

Stability	Unstable		Conditions to Avoid
			N.A.
	Stable	X	

Incompatibility (Materials to Avoid)

Strong oxidizing agents, bases

Hazardous Decomposition or by-Products

Oxides of carbon, possibly formic acid and other miscellaneous toxic gases

Hazardous Polymerization	May Occur		Conditions to Avoid
			N.A.
	Will Not Occur	X	

SECTION VI - Health Hazard Data

Health Hazards (Acute and Chronic): Rout(s) of Entry/Signs and Symptoms of Exposure Routes of exposure are eyes, skin, ingestion, and inhalation. Eye contact may cause severe irritation, possible burns. May cause irritation or possible burns on more prolonged contact with skin. Possibility of some harmful absorption through skin. Inhalation of product may cause irritation, possibly severe, to the upper respiratory tract and can also irritate the lungs. Repeated inhalation could eventually lead to permanent damage. Ingestion can cause irritation and possibly burns to the mouth, throat, and stomach. The oxalic acid contained in the solution is a systemic poison affecting the central nervous system and kidney function.

Emergency and First Aid Procedures

In case of eye contact, flush with water for 15 minutes and consult a physician. In case of skin contact, flush with water for at least 15 minutes. Consult a physician if irritation persists. Remove any contaminated clothing and wash before reuse. In case of ingestion, do not induce vomiting. Rinse mouth with water. Drink large quantities of water for dilution. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into lungs. In case of inhalation, remove patient to fresh air. If qualified, give oxygen and/or artificial respiration. Seek medical attention.

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

Contain spill with inert material. Prevent run-off to sewers, streams, or other bodies of water. Neutralize with mild base (alkaline). Soak up with absorbent material or wet vacuum up. Place in appropriate containers for disposal.

Waste Disposal Method

Check all government regulations. If allowed, incineration would be preferred method. May be possible to flush neutralized solution to sanitary sewer system with large quantities of water.

Precautions To Be Taken In Handling And Storing

Storage between 40°F and 100°F is recommended. Store so as to be inaccessible to children. Wash thoroughly after handling.

Other Precautions

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

SECTION VIII - Control Measures

Respiratory Protection (Specific Type)

Not normally needed.

Ventilation	Local Exhaust	Special
	Preferable	
	Mechanical (General)	Other
	Acceptable to keep below TLV limits.	

Protection Gloves

Rubber gloves

Eye Protection

Chemical safety goggles and full face shield.

Other Protective Clothing or Equipment

Usually not needed unless splashing is excessive. Otherwise, chemical apron plus other chemically resistant clothing.