



Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: MARYKATE® Rust Remover

Product Number (s): MK5316

Manufactured By:

CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-4620
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Thick clear, colorless liquid, mild acidic odor

DANGER

Corrosive to Skin and Eyes. Harmful if Inhaled.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health Effects:

EYE: Causes burns and may result in permanent injury to eyes including blindness.

SKIN: Causes irritation and corrosive burns.

INHALATION: Mists and vapors can irritate and may cause burns to the throat and respiratory tract.

INGESTION: Can cause severe gastrointestinal irritation or corrosion, dehydration, symptoms of central nervous system affection. Effects may not be immediate.

CHRONIC EFFECTS: Unknown

TARGET ORGANS: eye, skin, teeth and bones, kidneys, central nervous system

Medical Conditions Aggravated by Exposure: Osteoporosis

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Water	7732-18-5	80 - 95
Ammonium bifluoride	1341-49-7	5 – 10
Nonylphenoethoxylate	9016-45-9	1 – 5
Amphoteric surfactant	68919-41-5	1 - 5

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician.

Skin Contact: Immediately remove contaminated clothing and flush affected area with water for at least 15 minutes. Call a physician. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Do NOT induce vomiting. If patient is conscious give milk, egg whites, gelatin solution, antacid tablets or liquid, or, if none of these are available, give water. Get medical aid immediately.

Note to Physicians: Treat symptomatically.

Section 5: Fire-Fighting Measures

Flammable Properties: As defined by OSHA, this product is noncombustible.

Flash Point:	None	Upper Explosive Limit:	NA
Autoignition Temperature:	NA	Lower Explosive Limit:	NA

Suitable Extinguishing Media: As appropriate for surrounding fire.

Products of Combustion: Irritating and toxic gases or fumes may be released during a fire.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided, as well as full protective clothing. Fumes from heated material are highly corrosive to tissue. Use water spray to keep fire-exposed containers cool and to knock down vapors which result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Neutralize spill with sodium bicarbonate, sodium carbonate (soda ash) or other safe carbonates. Pump into containers for disposal.

Section 7: Handling and Storage

Handling Procedures: Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands after use and before contacting food. Do not mix this product with other chemical products.

Storage Procedures: Store in a cool dry area out of direct sunlight. Keep containers closed when not in use. Do not store near alkaline materials. Keep out of reach of children.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Water	NE	NE	NE	NE	NE		
Ammonium bifluoride	2.5	NE	2.5	NE	NE		mg/m ³
Nonylphenoethoxylate	NE	NE	NE	NE	NE		
Amphoteric surfactant	NE	NE	NE	NE	NE		
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with acid gas cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as rubber or neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Color: Clear, colorless

Odor: Mild acidic
Specific Gravity: 1.03
Initial Boiling Point: 212 F
Freezing Point: ND
Vapor Pressure: 20 mmHg @ 68 F
Vapor Density: > 1 (air = 1)
Evaporation Rate: ND (ether = 1)
Solubility: soluble in water
pH: 4.0 – 5.0
Volatile Organic Compounds: wt %: 0 g/L: 0 lbs./gal: 0

Section 10: Stability and Reactivity

Stability: Stable
Conditions to Avoid: Elevated temperatures
Incompatible Materials: Alkalis, reducing agents and reducible organics
Hazardous Decomposition Products: Toxic acid vapors liberated when heated
Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

ACUTE EFFECTS

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
No information available				

CHRONIC EFFECTS

Carcinogenicity:

	<u>Component</u>	<u>Result</u>
OSHA:	None listed	
IARC:	None listed	
NTP:	None listed	

Mutagenicity: No information available

Other: None

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: No information available

Persistence / Degradability:	Generally biodegradable
Bioaccumulation / Accumulation:	No information available
Mobility in Environment:	No information available

Section 13: Disposal Considerations

Disposal: This product, as packaged, is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33)

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: ammonium bifluoride (100 lbs)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:	Fire Hazard	No
	Reactive Hazard	No
	Release of Pressure	No
	Acute Health Hazard	Yes
	Chronic Health Hazard	No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

Consumer Product Safety Act General Conformity Certification: This product was evaluated by CRC Industries, Inc., and is certified to be in compliance with the provisions of the Consumer Product Safety Act, the Federal Hazardous Substances Act and the Poison Prevention Packaging Act, as applicable. This product was manufactured at the location listed in Section 1 of this MSDS. The date of manufacture is stamped on the product container. No testing is required to certify compliance with the above-mentioned regulations.

State RegulationsCalifornia Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: NONE

State Right to Know:

New Jersey: None
 Pennsylvania: None
 Massachusetts: None
 Rhode Island : None

Additional Regulatory Information: None

Section 16: Other Information

NFPA: Health: 3 Flammability: 0 Reactivity: 0
 HMIS: Health: 3 Flammability: 0 Reactivity: 0 PPE: B

Prepared By: Michelle Rudnick
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Changes since last revision: Section 15: CPSA Certification added

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

CAS:	Chemical Abstract Service	NA:	Not Applicable
ppm:	Parts per Million	ND:	Not Determined
TCC:	Tag Closed Cup	NE:	Not Established
PMCC:	Pensky-Martens Closed Cup	g/L:	grams per Liter
PPE:	Personal Protection Equipment	lbs./gal:	pounds per gallon
TWA:	Time Weighted Average	STEL:	Short Term Exposure Limit
OSHA:	Occupational Safety and Health Administration		
ACGIH	American Conference of Governmental Industrial Hygienists		
NIOSH	National Institute of Occupational Safety & Health		