



# Material Safety Data Sheet

## Section 1: Product & Company Identification

**Product Name:** Metal Mate™ Metal Cleaner & Polish

**Product Number (s):** MK3016

**Manufactured By:**

CRC Industries, Inc.  
885 Louis Drive  
Warminster, PA 18974  
[www.crcindustries.com](http://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: Viscous, opaque green liquid, ammonia odor

### WARNING

Skin and Eye Irritant.

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

### Potential Health Effects:

**EYE:** May cause mild to moderate irritation including tearing and redness.

**SKIN:** May cause mild to moderate irritation including burning and redness.

**INHALATION:** Not expected to product significant hazardous effects. May cause throat irritation after extended exposure.

**INGESTION:** May cause severe gastric distress.

**CHRONIC EFFECTS:** None known

**TARGET ORGANS:** Unknown

Medical Conditions Aggravated by Exposure: none known

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	50 - 60
Silica	14808-60-7	25 – 30
Potassium Tallate	61790-12-3	1 – 5
Coconut Diethanolamide	8051-30-7	1 – 5
Oxalic Acid	144-62-7	1 – 5
Aqua Ammonia	1336-21-6	< 1

**Section 4: First Aid Measures**

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

**Skin Contact:** Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. 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:** Induce vomiting by administering syrup of IPEAC, salt water, or if these are not available use finger in throat method. Give one or two glasses of water and repeat vomiting until vomit is clear. Contact a poison control center or physician for further instructions.

*Note to Physicians:* None available

**Section 5: Fire-Fighting Measures**

**Flammable Properties:** As defined by OSHA, this product is not flammable.

Flash Point:	None (TCC)	Upper Explosive Limit:	ND
Autoignition Temperature:	ND	Lower Explosive Limit:	ND

**Suitable Extinguishing Media:** As appropriate for surrounding fire.

**Products of Combustion:** Irritating gases or fumes may be released when heated.

**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. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

**Section 6: Accidental Release Measures**

**Personal Precautions:** Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent entry into waterways, sewers, basements or confined areas.

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. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

**Section 7: Handling and Storage**

Handling Procedures: Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before eating or drinking. Wash thoroughly after work using soap and water.

Storage Procedures: Keep container tightly closed and in a cool, well-ventilated area. Keep from freezing and overheating (store between 50 and 100 F). 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		
Silica	0.1	NE	0.05	NE	NE		mg/m <sup>3</sup>
Potassium tallate	NE	NE	NE	NE	NE		
Coconut diethanolamide	NE	NE	NE	NE	NE		
Oxalic acid	1	NE	1	2	NE		mg/m <sup>3</sup>
Aqua ammonia	50	NE	25	35	NE		ppm
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 an 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 butyl rubber. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

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**Section 9: Physical and Chemical Properties**

Physical State: viscous liquid  
Color: green  
Odor: ammonia  
Specific Gravity: 1.10  
Initial Boiling Point: 212 F  
Freezing Point: ND  
Vapor Pressure: ND  
Vapor Density: ND (air = 1)  
Evaporation Rate: < 1 (ether = 1)  
Solubility: 71% soluble in water  
pH: 9.0 – 9.5  
Volatile Organic Compounds: wt %: 0 g/L: 0 lbs./gal: 0

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**Section 10: Stability and Reactivity**

Stability: Stable  
Conditions to Avoid: Temperature extremes  
Incompatible Materials: Strong oxidizers  
Hazardous Decomposition Products: Oxides of carbon  
Possibility of Hazardous Reactions: No

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**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>
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No data available

**CHRONIC EFFECTS**

**Carcinogenicity:**

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

Mutagenicity: No data available

Other: None

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

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**Section 13: Disposal Considerations**

Disposal: This product 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.

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**Section 14: Transport Information**

Proper shipping description:

US DOT (ground): Not Regulated

Special Provisions: None

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**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: aqua ammonia (1000 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 Regulations**California 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: 14808-60-7, 144-62-7, 1336-21-6  
 Pennsylvania: 14808-60-7, 144-62-7, 1336-21-6  
 Massachusetts: 14808-60-7, 144-62-7, 1336-21-6  
 Rhode Island : 14808-60-7, 144-62-7, 1336-21-6

**Additional Regulatory Information:** In states with Consumer Products VOC regulations, this product is compliant as a Metal Polish/Cleanser.

**Section 16: Other Information**

NFPA: Health: 1 Flammability: 0 Reactivity: 0  
 HMIS: Health: 1 Flammability: 0 Reactivity: 0 PPE: B

Prepared By: Michelle Rudnick  
 CRC #: MK3016  
 Revision Date: 11/10/2008

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		