

MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Marykate® Metal Mate
Product Number (s): MK3016, MK3032

Manufactured By: CRC Industries, Inc. (215) 674-4300
885 Louis Drive, Warminster, PA 18974
24-Hour Emergency Information: CHEMTREC (800) 424-9300

Section 2: Composition/Information on Ingredients

Component	CAS NUMBER	ACGIH TLV	OSHA PEL	OTHER LIMITS	%
Silica	14808-60-7	0.1 mg/m ³	NE	0.05 mg/m ³	25-30
Potassium Tallate	61790-12-3	NE	NE	NE	1 – 5
Coconut Diethanolaminde	8051-30-7	NE	NE	27000 ppm	1 – 5
Oxalic Acid	144-62-7	1 mg/m ³	1 mg/m ³	1 mg/ m ³	1 – 5
Aqua Ammonia	1336-21-6	25 ppm	50 ppm	25 ppm	< 1

Section 3: Hazards Identification

Emergency Overview

Appearance & Odor: Opaque Green Viscous Liquid. Ammonia odor.
Caution: Harmful if Swallowed

Potential Health Effects:

Inhalation: Not a conceived route of entry in wet state. If left to dryness, respirable dust is internally harmful.
Eyes: Irritation to eyes, may cause corneal damage.
Skin: Irritation. Absorption through skin may cause headache, nausea, dizziness, and vomiting.
Ingestion: Harmful if swallowed, may cause burns to the mouth and esophagus.

Carcinogenicity: OSHA: No IARC: No NTP: No

Chronic Overexposure: Contact with eyes can cause corneal damage. Extended overexposure can cause kidney/liver damage, dizziness, headaches, nausea, vomiting.

Medical Conditions Aggravated by Exposure: Unknown

Section 4: First Aid Measures

Inhalation: Remove to fresh air. Contact physician if breathing becomes difficult or condition persists.
Eyes: Flush with large amounts of water for at least 15 minutes. Contact physician if irritation persists.
Skin: Remove contaminated clothing and wash area thoroughly with water. If irritation develops, get Medical aid.

Ingestion: Do not induce vomiting. Drink large quantities of water or milk. Contact physician or poison control center immediately.

Section 5: Fire-Fighting Measures

Flashpoint: None Method: Set a flash LEL: ND UEL: ND
Extinguishing Media: CO₂, water, foam, dry chemical
Hazardous Combustion Products: unknown
Fire-fighting Instructions: Spray water on cartons involved in fire to keep them from igniting. Wear self-contained breathing apparatus due to the possible toxic fumes from plastic containers and or the vaporization of potentially harmful chemicals. Area will become slippery if material is released.

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

Section 6: Accidental Release Measures

Spill/Leak Procedures: Area should be ventilated. Absorbent should be used to pick up excess material. All used and unused product should be disposed of in accordance with federal, state and local regulations.

Section 7: Handling and Storage

Handling Procedures: Keep out of reach of children. Store in a cool, dry area. Protect from heat and incompatibilities. Wash thoroughly after handling.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Provide local exhaust adequate to prevent accumulation of vapors. Use mechanical means if necessary to maintain levels below the exposure limits. If working in a confined space, follow applicable OSHA regulations.

Respiratory: Use NIOSH/MSHA compliant respirators or self-contained breathing apparatus above exposure limits. Follow OSHA regulations 29 CFR 1910.134.

Protective Clothing/Equipment: Wear chemically protective gloves and safety glasses. Use a splash apron and boots if splashing occurs.

Section 9: Physical & Chemical Properties

Physical State:	Liquid	Appearance & Odor:	Opaque green viscous liquid, ammonia odor.
Specific Gravity:	1.10	Boiling Point:	212°F
Freezing Point:	ND	Vapor Pressure:	ND
Evaporation Rate:	Slower than water	Vapor Density (air = 1)	> 1
pH:	9.0 – 9.5	Solubility:	71% (in water)
Volatile Organic Compounds:%:	ND	g/L: ND	lbs./gal: ND

Section 10: Stability and Reactivity

Stability:	Stable	Hazardous Polymerization:	No
Chemical Incompatibilities:	Acids, strong alkalis and strong oxidizers.		
Conditions to Avoid:	Avoid extreme heat or freezing temperatures.		
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide		

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. See Section 3 of this MSDS for acute symptoms of overexposure and carcinogenicity information.

Section 12: Ecological Information

Ecotoxicity:	No data available.
Environmental Fate:	No data available for biodegradation.

Section 13: Disposal Considerations

Disposal: This material if discarded may be hazardous waste under U.S. EPA RCRA regulations. All disposal activities must comply with federal, state and local regulations. Contact your local or state environmental agency for specific rules. Do not dump into sewers, on the ground or into any body of water.

Section 14: Transportation Information

Shipping Name:	Not Regulated		
Hazard Class:	NA	UN Number:	NA
Label:	NA	Placard:	NA
Special Provisions:	NA		

Section 15: Regulatory Information

TSCA:	All components are either listed under TSCA or are exempt.		
SARA Title III:	Section 311/312:	None	
	Section 313*:	None	
CERCLA/Superfund (RQ):	NA		
Extremely Hazardous Substances:	No		
California Prop 65:	No		

* See section 2 for percentage

Section 16: Additional Information

Prepared By:	Michelle Milburn	Date:	August 12, 2003
Technical Information:	(800) 521-3168	CRC #:	MK3016

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
LEL:	Lower Explosive Limit	g/L:	grams per Liter
UEL:	Upper Explosive Limit	lbs./gal:	pounds per gallon
PPE:	Personal Protection Equipment	RQ:	Reportable Quantity