

MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Marykate® Barnacle & Zebra Muscle Remover
Product Number (s): MK6632, MK66128, MK66550

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	%
Hydrogen Chloride	7647-01-0	5 ppm	5 ppm	NE	20-30
Phosphoric Acid	7664-38-2	1mg/cu.m	1 mg/cu.m	NE	<10
Oxalic Acid	144-62-7	1 mg/m3	1 mg/m3	NE	<10

Section 3: Hazards Identification

Emergency Overview

Appearance & Odor: White liquid, irritating odor.

Potential Health Effects:

- Inhalation:** High concentrations are irritating to the eyes and respiratory tract. May cause headache, dizziness, nausea and vomiting.
- Eyes:** Could cause blindness if gotten in eyes.
- Skin:** Corrosive to skin. 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: Preexisting pulmonary, liver and/or kidney disorders may be aggravated by overexposure to this material.

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 15 minutes. Contact physician if irritation persists.
- Skin:** Remove contaminated clothing and wash area with soap and water.
- Ingestion:** Rinse mouth with water. Drink milk of magnesia or lime water. If there are not available drink

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large quantities of water. Do not induce vomiting. Seek medical attention.

Section 5: Fire-Fighting Measures

Flashpoint: None Method: Seta flash LEL: NA UEL: NA
Extinguishing Media: CO₂, water fog, foam
Hazardous Combustion Products:
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: 4 Flammability: 0 Reactivity: 1
HMIS: Health: 4 Flammability: 0 Reactivity: 1 PPE: D

Section 6: Accidental Release Measures

Spill/Leak Procedures: Usually not a problem with aerosols. 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: Store in a cool, dry area. Aerosol cans must be maintained below 120oF to prevent cans from exploding.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: 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: White liquid, irritating odor.
Specific Gravity: 1.18 Boiling Point: 212°F
Freezing Point: ND Vapor Pressure: ND
Evaporation Rate: Slower than water Vapor Density (air = 1) > 1
pH: 1.0 Solubility: Complete in water.

Volatile Organic Compounds:%: 90.60 g/L: ND lbs./gal: ND

Section 10: Stability and Reactivity

Stability: Stable Hazardous Polymerization: No
Chemical Incompatibilities: Avoid product contact with soft metals such as aluminum, tin and

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Materials to Avoid: zinc.
Alkaline materials, oxidizing agents, contact with metals.
Hazardous Decomposition Products: Hydrogen chloride gas, hydrogen gas, chlorine gas, nitrogen carbon dioxide, carbon mono oxide.

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: **1 Quart or Less:** Consumer Commodity
Hazard Class: NA UN Number: NA Packing Group: NA
Label: NA Placard: NA
Special Provisions: NA

Shipping Name: **Larger Than Quarts:** Corrosive Liquid, NOS (Contains Hydrochloric and Phosphoric Acids)
Hazard Class: 8
UN Number: UN1760 Packing Group: II
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: Hydrogen Chloride, Acute
Section 313*: Phosphoric Acid
CERCLA/Superfund (RQ): NA
Extremely Hazardous Substances: No
California Prop 65: No
* See section 2 for percentage

Section 16: Additional Information

Prepared By: Adam M. Selisker Date: June 15, 2001
Technical Information: (800) 521-3168 CRC #: MK6632

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.

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CAS: Chemical Abstract Service
ppm: Parts per Million
TCC: Tag Closed Cup
LEL: Lower Explosive Limit
UEL: Upper Explosive Limit
PPE: Personal Protection Equipment

NA: Not Applicable
ND: Not Determined
NE: Not Established
g/L: grams per Liter
lbs./gal: pounds per gallon
RQ: Reportable Quantity