



Material Safety Data Sheet

Mirachem[®] Commercial Alkaline Cabinet Wash

(Formulation No. 2404)

Section I - General

Manufacturer Name: The Mirachem Corporation
P.O. Box 14059
Phoenix, Arizona 85063-4059
Date Prepared: 06/20/03
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Emergency Phone: 1-(800) 847-3527

Section II - Hazardous Ingredients/Identity Information

Hazardous Component (CAS #)	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Silicic acid, Potassium salt (1312-76-1)	N.E.	N.E.		< 10

Section III - Hazards Identification

Emergency Overview: Clear amber liquid with mild detergent odor. Avoid contact with eyes and skin. May cause severe eye and skin irritation and/or burns. Avoid ingestion. May cause severe irritation or burns to mouth, throat and stomach. Spray mist may cause irritation to respiratory tract. High pH is harmful to aquatic life. Noncombustible. Spills are slippery. Reacts with acids, ammonium salts, reactive metals and some organics.

Eye Contact: Causes severe irritation and/or burns
Skin Contact: Causes irritation and/or burns with prolonged contact.
Inhalation: Spray mist irritating to respiratory tract.
Ingestion: May cause irritation and/or burns to mouth, throat, esophagus, and stomach.
Chronic Hazards: No known chronic hazards.
Carcinogenicity: Not listed by NTP, IARC or OSHA as a carcinogen.
Signs/Symptoms of Overexposure: Prolonged contact may cause mild irritation or dryness to sensitive skin.
Medical Conditions Generally Aggravated by Exposure: Dermatitis and similar skin disorders.
Physical Hazards: Spilled material can be slippery. Can etch glass if not promptly removed.

Section IV - First Aid Measures

Eyes: In case of contact, immediately flush with plenty of cool water for at least 15 minutes. Remove contact lenses if present. Get medical attention.

Skin: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and wash before reuse. If irritation or burn develops and persists, get medical attention.

Ingestion: If swallowed, **DO NOT** induce vomiting. If victim is fully conscious, give water, milk or other fluids to dilute. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Section V - Fire and Explosion Hazard

Flash Point (Method Used): Non-flammable (will not burn) Explosive Limits: N/A
Extinguishing Media: Compatible with all extinguishing media.
Special Fire Fighting Equipment: The following protective equipment for fire fighters is recommended when this material is present in the area of a fire: self contained breathing apparatus, chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots.
Unusual Fire and Explosion Hazards: None
Hazardous Combustion Products: Carbon monoxide, carbon dioxide.

Section VI - Accidental Release

Personal Protection: Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, rubber boots.
Small Spills (less than 1 gallon): Wear safety glasses and rubber gloves. Mop up and neutralize liquid, then discharge to sewer in accordance with federal, state, and local regulations or permits.
Large Spills: Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent runoff from entering into storm sewers and ditches that lead to natural waterways. Isolate, dike and store discharged material, if possible. Use sand or earth to contain spilled material. If containment is impossible, neutralize contaminated area with dilute solution of mild acid such as vinegar or citric acid and flush with large quantities of water to drain. If material is contaminated with greases, oils or other, recover neutralized liquid and dispose of in accordance with Federal, State, and local requirements.
Disposal: Product and un-neutralized solutions are strongly alkaline. Dispose in accordance with Federal, State, and local requirements.
CERCLA RQ: There is no CERCLA Reportable Quantity for this material.
Environmental Hazards: High pH is harmful to aquatic life. Only water will evaporate from a spill of this material.

Section VII - Handling & Storage

Handling Precautions: Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills.
Storage Precautions: Keep containers tightly closed. Store in clean steel or plastic containers. Separate from acids, reactive metals, and ammonium salts. Storage temperature 0-95°C. Loading temperature 45-95°C. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers. Keep from freezing.

Section VIII - Exposure Controls, Personal Protection

Engineering Controls: Use with adequate ventilation especially when used with heated equipment or if mist is produced. Keep containers closed. Safety shower and eyewash fountain should be within direct access.
Respiratory Protection: Use NIOSH or MSHA approved dust and mist respirator where spray mist occurs.
Protective Clothing: Wear body covering protective clothing, rubber apron and alkali resistant, impermeable gloves.
Eye Protection: Wear chemical goggles and/or face shield.
Work/Hygienic Practices: Use good personal hygiene practices, wash hands before eating, drinking, smoking, or using toilet facilities.

Section IX - Physical/Chemical Characteristics

Boiling Point:	>210°F	Specific Gravity (H ₂ O = 1):	1.24
Vapor Pressure (mm Hg.) @ 20°C	N.E.	pH (as is):	12.5
Vapor Density (AIR =1):	N.E.	pH (at use dilution, 4-5%)	11.5
Percent Volatile:	70 (water)	Evaporation Rate (Butyl Acetate = 1):	N.E.
Solubility in Water:	Complete	Volatile Organic Compounds:	0 g/l (0 lbs/gal)
Appearance and Odor:	Clear amber liquid with a mild detergent odor		

N/A = Not Applicable

N.E. = Not Established

Section X - Stability & Reactivity

Stability: Unstable Stable Hazardous polymerization will not occur.

Incompatibility (Materials to Avoid): May gel and/or generate heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc.

Hazardous Decomposition or By-products: Hydrogen

Section XI - Toxicological Information

No Data Available Based on data available on the primary ingredients, this product would be classified as a skin and eye irritant. This same data indicates that this product can be irritating to the mouth, esophagus, and stomach.

Section XII - Ecological Information

No Data Available

Section XII - Disposal Considerations

Classification: Unused disposed material is not a RCRA Hazardous Waste.

Waste Disposal: Neutralize with dilute acid and landfill solids in accordance with federal, state and local regulations. Flush neutral liquid to sewer in accordance with federal, state and local regulations and permits.

(Unused Material)

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, State and local waste disposal requirements may be more restrictive or otherwise different from Federal laws and regulations.

Section XIV - Transportation Information

D.O.T Shipping Name:	Not Regulated	D.O.T Hazard Class:	None
UN Shipping Name:	N/A	UN/NA Number:	N/A
UN Class or Division:	N/A	UN Packing Group:	None
NMFC Freight Class	Compound, Cleaning Fluid, NOI 48580 Sub 3		

Section XIV - Regulatory Information

Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warrantee, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state, and local laws. The following specific information is made for the purpose of complying with numerous federal, state, and local laws and regulations.

Federal Regulations:

Workplace Classification	This product is considered a health hazard under the OSHA Hazard Communication Standard (29CFR 1910.1200).
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SARA Title III

Section 302	This product is not an extremely hazardous chemical under 29CFR 1910.1200.
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Section 311/312	This product does not require reporting under Tier 1 reporting requirements.
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Section 313	This product does not contain a chemical, which is listed in Section 313 at or <u>above de minimis</u> concentrations.
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CERCLA Information (40CFR 302.4)	Releases of this product to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.
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TSCA	All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act.
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NFPA Ratings	Health = 2	Flammability = 0	Reactivity = 0	Special = 0
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NPCA-HMIS Ratings	Health = 2	Flammability = 0	Reactivity = 0	Protective Equipment = C
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State Regulations:

Arizona

Maricopa County	Under the definitions of Rule 331, this product is considered a Low-VOC Cleaner.
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California

California Safe Drinking Water and Toxic Enforcement - Prop. 65	This product does not contain any materials currently listed by California as chemicals known to cause cancer or known to have reproductive toxicity under Proposition 65.
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