

Water Ring & Etch Remover

Polishing Powder For

- Marble
- Limestone
- Terrazzo
- Other Natural Stone
- Travertine

Special Features

- No Oxalic Acid
- Safe to Use
- Easy to Use
- Fast Acting
- Interior & Exterior
- Cost Effective

PRODUCT DESCRIPTION

KEEP OUT OF REACH OF CHILDREN. **Water Ring & Etch Remover** polishing powder is a unique blend designed to enhance the natural shine of natural stone and terrazzo. **Water Ring & Etch Remover** will remove light scratches, water rings and acid etch marks. **Water Ring & Etch Remover** is an effective means of maintaining the factory finish of marble, travertine, limestone, terrazzo and other natural stone surfaces. Unlike recrystallization or vitrification, **Water Ring & Etch Remover** does not change the surface composition of the stone. **Water Ring & Etch Remover** is an easy to use polishing process that has been used in stone factories and in the field for decades. **Water Ring & Etch Remover** is great for ongoing maintenance, as well as the final polishing step in any stone restoration procedure. Heavy scratches and etch marks may need to be honed with the **Mira Hone** or **Pyramid Diamond Abrasive System** prior to using **Water Ring & Etch Remover**.

Sample Testing

Due to the differences of each material, several inconspicuous test patches should be completed to assure maximum performance. **User must determine suitability of the product for their intended use.**

Special Precaution & Protection

Always protect neighboring surfaces including masonry, wood, carpet, metal, landscaping and other non masonry surfaces.

Water Ring & Etch Remover should not be left on the surface for any length of time without constant buffing action. If buffing is stopped **Water Ring & Etch Remover** must be immediately picked up to avoid burning. Place the floor or hand machine on a plastic or teflon sheet when not in use. **Water Ring & Etch Remover** is not recommended for granite or synthetic surfaces. **Water Ring & Etch Remover** can be run through a sifter for a more consistent powder.

APPLICATION INSTRUCTIONS

Read entire label and PDS before using.

All previous applied sealers, coatings and/or waxes must be removed using **Mira Strip** or **H2O Strip** as directed.

Using a **Marble Master 1000** (175 rpm, 150 lbs.) floor machine equipped with a **Mira Pad**, white polishing pad or a tampico brush will provide optimum results. Wet a small area (2 - 4 sf) with clean water. Sprinkle **Water Ring & Etch Remover** on the area and buff making slow, even passes. Add water or **Water Ring & Etch Remover** as needed to maintain a watery/milky slurry. **DO NOT ALLOW Water Ring & Etch Remover SLURRY TO DRY ON THE SURFACE.** Buff the stone for 1 - 2 minutes or until desired polish is achieved. Additional **Water Ring & Etch Remover** may be used to increase polish. Be careful not to buff too long in any given area as this may create a burn. After polishing, rinse the stone thoroughly with the appropriate **Miracle Cleaner** as directed. Agitate with a soft brush and remove using a wet vacuum. This procedure is essential for neutralization of the polished surface.

Counters: Use a hand machine (600 - 800 rpm) equipped with a **Mira Pad**, white pad or tampico brush and use in the same manner as with floors.

Wall: Wet the small area to be worked and sprinkle the **Water Ring & Etch Remover** directly onto the polishing pad or brush. Buff the walls in small sections. Be careful to protect neighboring areas from dripping of the **Water Ring & Etch Remover** solution.

Small Areas: **Water Ring & Etch Remover** can be worked by hand for very small areas or trouble spots. Follow the same procedure as above, buffing with a small white pad and using rubber gloves. This method can effectively remove many light scratches, water rings and etch marks while restoring desired luster to those very small and hard to reach areas.

Heavy Duty Cleaning: Use **Pre-Cast Concrete Cleaner, GCFR** or **Liquid Poulitice** as directed.

Light Cleaning: Use **Mira Clean #1, Stone Cleaner Preserver** or **Counter Kleen** as directed.

Water, Stain & Slip Protection

Application of **Miracle Penetrating Sealer/Impregnator** will reduce penetration of all staining materials and make the surface less slippery.

Color and Gloss Enhancement

For added color with "Textured and Non polished" surfaces, **Mira Matte** may be used. For porous type "Paver", **Saltillo & Terra Cotta Paste & Liquid Wax, Stone Polish, Stone Polish Preserver, Granite Brite, Mira Brite, Mira Dust, Marble Conditioner** or **Tile Brite** may be used as directed.

Polish Enhancement

Periodically use **Mira Dust, Marble Conditioner, Mira Brite, Mira Pad** or **Granite Brite** as directed.

Mold, Mildew and Bacteria Sanitation

For best results in killing mold, mildew, bacteria and other micro organisms, use **Miracle Disinfectant** as directed.

Coverage

Coverage will vary depending on the density, porosity, texture, surface absorption, weather, time solution left on surface and application methods. Used as directed, **Water Ring & Etch Remover** will do approximately 13 - 28 sq. meters per pound or 3 - sq. meters per 4 oz. bottle.

MAINTENANCE

For ongoing maintenance instructions please refer to **Miracle Sealants Care Guide**. Refer to the **Miracle Sealants Product Recommendation Chart** for specific product recommendations.

Storage

Store **Water Ring & Etch Remover** in the original upright container properly sealed and unmixed. Stored at 77° F (40° C), **Water Ring & Etch Remover** will have a shelf life of 12 months. Do not allow to freeze

Technical Support

For additional technical support, contact Miracle Sealants Company at 1-800-350-1901 or 626-443-6433 ext. 3013

Office Hours

Monday - Friday from 8:30 am - 5:00 pm PT.
1-626-443-6433 or 1-800-350-1901 • Fax: 1-626-443-1435
website: www.miraclesealants.com

Product Damaged During Transportation

If product is damaged during transportation contact Info Trac @ 1-800-535-5053

Additional Products

Miracle Sealants Company offers a complete line of water & stain repellents, sealers, cleaner, polishing compounds, diamond abrasives, machinery and accessories for the tile, stone, concrete, metal, fabric and carpet professional or do-it yourself specialist.

Caution

Use in a well ventilated area. This product contains mild corrosive and must be used only as directed. **KEEP OUT OF REACH OF CHILDREN.** Avoid contact with food or beverages and risk of accidental ingestion. Do not transfer to other bottles or containers. Protect skin and eyes. If exposed, wash or flush with water. Keep small children and pets out of area until product or surface has thoroughly dried. For more information refer to the MSDS.

Warranty

Instructions are a condensed guide and should not be considered complete. In the event of failure, the only obligation of Miracle Sealants Company shall be to replace such products proven to be defective. **Before using, user shall determine the suitability of the product for their intended use.** User assumes all risks and liability whatsoever in connection n therein. Neither seller nor manufacturer shall be liable for any injury or inability to use this product.



Safety Data Sheet

Issue Date: 01-Feb-2015

Revision Date: 06-Nov-2013

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Water Ring & Etch Remover

Other means of identification

SDS # MSC-026

Product Code OMB No. 1218-0072

Recommended use of the chemical and restrictions on use

Recommended Use Polishing powder.

Details of the supplier of the safety data sheet

Supplier Address

Miracle Sealants Company
12318 Lower Azusa Road
Arcadia, CA 91006

Emergency Telephone Number

Company Phone Number 1-626-443-6433 (Phone)
1-626-443-1435 (Fax)

24 Hour Emergency Phone Number 800-350-1901

Emergency Telephone (24 hr)

For product spills, leaks or exposures call:
Infotrac 1-800-535-5053 (North America) or 1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Appearance Fine, granular white crystals

Physical State Solid, granular crystals

Odor Odorless

Classification

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage



Precautionary Statements - Prevention

Use only outdoors or in a well-ventilated area
 Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor/physician
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a poison center or doctor/physician if you feel unwell
 Immediately call a POISON CENTER or doctor/physician
 IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Potassium Oxalate	6487-48-5	Proprietary
Sodium sulfate	7757-82-6	Proprietary
Citric Acid	77-92-9	Proprietary
Calcium acetate	62-54-4	Proprietary
Ammonium bifluoride	1341-49-7	Proprietary

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

General Advice Provide this SDS to medical personnel for treatment.

Eye Contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Skin Contact	Wash off with soap and water. If irritation persists, call physician.
Inhalation	Remove to fresh air. If victim is unconscious, seek immediate medical attention. Call a poison center or doctor/physician if you feel unwell.
Ingestion	Do not induce vomiting. Call physician or Poison Control Center immediately. Rinse mouth.

Most important symptoms and effects

Symptoms	<p>Eyes: Material is ocular irritant & may cause cornea damage. Healing is usually complete if first aid measures have been promptly initiated.</p> <p>Skin: May cause irritation to skin.</p> <p>Ingestion: May cause systemic poisoning and cause severe damage to the esophagus and stomach. May cause hypocalcemia, possibly fatal.</p> <p>Inhalation: Irritation, may cause coughing & difficult breathing. Excessive inhalation may cause systemic poisoning.</p>
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Medical conditions generally aggravated - Hypocalcemia, liver or kidney diseases.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog, CO2, alcohol or dry chemical.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Product is not flammable.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
Environmental Precautions	See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Promptly sweep or shovel material into an empty container, avoiding dusty conditions. Complete clean-up by flushing residue with plenty of water. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection. Avoid contact with skin, eyes or clothing. Do not breathe vapors or spray mist.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry place, away from food or feed product. Keep out of the reach of children. Keep container tightly closed. Store locked up.

Incompatible Materials Strong oxidizers, acids and alkalis, aldehydes, ethers and amines.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Citric Acid 77-92-9	-	15 mg / m3 (Total)	-
Ammonium bifluoride 1341-49-7	TWA: 2.5 mg/m ³ F	TWA: 2.5 mg/m ³ F TWA: 2.5 mg/m ³ dust (vacated) TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³ F

Appropriate engineering controls

Engineering Controls Mechanical ventilation or local exhaust ventilation if available.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight fitting, splash proof safety glasses.

Skin and Body Protection Protective gloves: Plastic or rubber, chemical resistant
Protective clothing or equipment: Chemical resistant clothing.

Respiratory Protection Ventilate by opening all doors and windows. If exposure above the TLV or PEL require a NIOSH approved respirator equipped for the exposure or suitable respiratory protection per 29 CFR 1910.134 is required.

General Hygiene Considerations Work hygienic practices: Wash hands thoroughly before handling foodstuffs, liquids or tobacco products. Use common sense and care around chemicals. Never mix this product with other chemicals. Consult your supervisor for all other hygienic and safety practices. All practices depend on your specific business. Directions for use normally found on label which will dictate engineering and control measures. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid, granular crystals	Odor	Odorless
Appearance	Fine, granular white crystals	Odor Threshold	Not determined
Color	White		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	2.3	
Melting Point/Freezing Point	Not available	
Boiling Point/Boiling Range	141 °C / 285.8 °F	
Flash Point	Not available	
Evaporation Rate	Not available	
Flammability (Solid, Gas)	Not determined	

Upper Flammability Limits	Not tested
Lower Flammability Limit	Not tested
Vapor Pressure	Not tested
Vapor Density	2.5
Specific Gravity	2.13
Water Solubility	25% In weight at 64.4 °F (18°C)
Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Polymerization can occur.

Conditions to Avoid

Heat and any open flame. Keep from freezing.

Incompatible Materials

Strong oxidizers, acids and alkalis, aldehydes, ethers and amines.

Hazardous Decomposition Products

NH₃ and HF.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns.
Inhalation	May cause irritation to the mucous membranes and upper respiratory tract.
Ingestion	Ingestion causes acute irritation and burns to the mucous membranes of the mouth, trachea, esophagus and stomach.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium sulfate 7757-82-6	> 10000 mg/kg (Rat)	-	-
Citric Acid 77-92-9	= 3000 mg/kg (Rat)	-	-

Ammonium bifluoride 1341-49-7	= 130 mg/kg (Rat)	-	-
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Information on physical, chemical and toxicological effects**Symptoms**

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ammonium bifluoride 1341-49-7		Group 3		

*IARC (International Agency for Research on Cancer)
Group 3 IARC components are "not classifiable as human carcinogens"*

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium sulfate 7757-82-6		13500 - 14500: 96 h Pimephales promelas mg/L LC50 6800: 96 h Pimephales promelas mg/L LC50 static 3040 - 4380: 96 h Lepomis macrochirus mg/L LC50 static 13500: 96 h Lepomis macrochirus mg/L LC50		630: 96 h Daphnia magna mg/L EC50 2564: 48 h Daphnia magna mg/L EC50
Citric Acid 77-92-9		1516: 96 h Lepomis macrochirus mg/L LC50 static		120: 72 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Citric Acid 77-92-9	-1.72

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

- Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.
- Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

- Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
- DOT** Please refer to the Bill of Lading receiving/documents for up-to-date information
- IATA** Please refer to the Bill of Lading receiving/documents for up-to-date information
- IMDG** Please refer to the Bill of Lading receiving/documents for up-to-date information

15. REGULATORY INFORMATION

International Inventories

TSCA Listed

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium bifluoride 1341-49-7	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ammonium bifluoride - 1341-49-7	1341-49-7	Proprietary	1.0

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium bifluoride 1341-49-7 (Proprietary)	100 lb			X

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium sulfate 7757-82-6		X	X
Ammonium bifluoride 1341-49-7	X	X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	Not determined	Not determined	Not determined	Not determined

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet