Mira Dust

Polishing Powder For
- Marble
- Limestone
- Terrazzo
- Travertine
- Other Natural Stone
- Furniture

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

PRODUCT DESCRIPTION

KEEP OUT OF REACH OF CHILDREN. Mira Dust polishing powder is a unique blend designed to enhance the natural shine of natural stone and terrazzo. Mira Dust will remove light scratches, water rings and acid etch marks. Mira Dust is an effective means of maintaining the factory finish of marble, travertine, limestone, terrazzo and other natural stone surfaces. Unlike recrystallization or vitrification, Mira Dust does not change the surface composition of the stone. Mira Dust is an easy to use polishing process that has been used in stone factories and in the field for decades. Mira Dust 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 Mira Hone or with the Pyramid Diamond Abrasive System.

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 wood, carpet, metal, landscaping and other non masonry surfaces. Mira Dust should not be left on the surface for any length of time without constant buffing action. If buffing is stopped Mira Dust must be immediately picked up to avoid burning. Place the floor or hand machine on a plastic or teflon sheet when not in use. Mira Dust is not recommended for granite or synthetic surfaces. Mira Dust can be run through a sifter for a more consistent powder.

APPLICATION INSTRUCTIONS

Read entire label and PDS/MSDS before using. All previous applied sealers, coatings and/or waxes must be removed using Mira Strip or Finish Sealer Stripper as directed.

Using a Marble Master 1000 (175 rpm, 150 lbs.) floor machine equipped with a white polishing pad or a tampico brush will provide optimum results. Wet a small area (2 - 4 sf) with clean water. Sprinkle Mira Dust on the area and buff making slow, even passes side to side. Add water or Mira Dust as needed to maintain a wet/wet/milky slurry. DO NOT ALLOW MIRA DUST SLURRY TO DRY ON THE SURFACE. Buff the stone for 1 - 2 minutes or until desired polish is achieved. Additional buffing with Mira Dust may be used to increase polish. A floor squeegee may be used to move the solution to the next small area to be polished. Be careful not to buff too long in any given area as this may create a burn. After polishing, rinse the stone thoroughly with a Tile & Stone Cleaner solution (20 - 1). 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 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 Mira Dust directly onto the polishing pad or brush. Buff the walls in small sections. Be careful to protect neighboring areas from dripping of the Mira Dust solution.

Small Areas: Mira Dust 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 Phosphoric Acid Cleaner, HDAC or Liquid Poultice as directed.

Light Cleaning: Use Tile & Stone Cleaner 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.

Coverage

Coverage will vary depending on density, porosity, texture, surface absorption, weather; time solution left on surface and application methods. Used as directed, Mira Dust will do approximately 150 - 300 square feet (14 - 27 sq, meters) per pound.

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 Mira Dust in the original upright container properly sealed and unmixed. Stored at 77° F (25° C), Mira Dust 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, cleaners, 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 a 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 flush with water. Chemical resistant gloves should be worn at all times. Keep small children and pets out of area until product or surface has thoroughly dried. Refer to the MSDS for additional information.

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 therein. Neither seller nor manufacturer shall be liable for any injury or inability to use this product.
1. IDENTIFICATION

Product Identifier
Product Name: Mira Dust

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

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Oxalate</td>
<td>6487-48-5</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>7757-82-6</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Citric Acid</td>
<td>77-92-9</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Calcium acetate</td>
<td>62-54-4</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Ammonium bifluoride</td>
<td>1341-49-7</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>

**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: Eyes: Material is ocular irritant & may cause cornea damage. Healing is usually complete if first aid measures have been promptly initiated. Skin: May cause irritation to skin. Ingestion: May cause systemic poisoning and cause severe damage to the esophagus and stomach. May cause hypocalcemia, possibly fatal. Inhalation: Irritation, may cause coughing & difficult breathing. Excessive inhalation may cause systemic poisoning.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Medical conditions generally aggravated - Hypocalcemia, liver or kidney diseases.

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.

### Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric Acid 77-9-9</td>
<td>-</td>
<td>15 mg / m³ (Total)</td>
<td>-</td>
</tr>
<tr>
<td>Ammonium bifluoride 1341-49-7</td>
<td>TWA: 2.5 mg/m³ F</td>
<td>TWA: 2.5 mg/m³ F (vacated) TWA: 2.5 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid, granular crystals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Fine, granular white crystals</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>2.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>141 °C / 285.8 °F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium sulfate 7757-82-6</td>
<td>&gt; 10000 mg/kg ( Rat )</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Citric Acid 77-92-9</td>
<td>= 3000 mg/kg ( Rat )</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium bifluoride</td>
<td></td>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium sulfate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7757-82-6</td>
<td></td>
<td>13500 - 14500: 96 h Pimephales promelas mg/L</td>
<td>630: 96 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 6800: 96 h Pimephales promelas mg/L LC50 static</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3040 - 4380: 96 h Lepomis macrochirus mg/L LC50 static</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>13500: 96 h Lepomis macrochirus mg/L LC50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citric Acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>77-92-9</td>
<td></td>
<td>1516: 96 h Lepomis macrochirus mg/L LC50 static</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric Acid</td>
<td>-1.72</td>
</tr>
<tr>
<td>77-92-9</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium bifluoride</td>
<td>100 lb</td>
<td></td>
<td>RQ 100 lb final RQ</td>
</tr>
<tr>
<td>1341-49-7</td>
<td></td>
<td></td>
<td>RQ 45.4 kg final RQ</td>
</tr>
</tbody>
</table>

SARA 313

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium bifluoride</td>
<td>1341-49-7</td>
<td>Proprietary</td>
<td>1.0</td>
</tr>
</tbody>
</table>

CWA (Clean Water Act)
<table>
<thead>
<tr>
<th>Component</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium bifluoride 1341-49-7 (Proprietary)</td>
<td>100 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**US State Regulations**

**California Proposition 65**
This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium sulfate 7757-82-6</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ammonium bifluoride 1341-49-7</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**16. OTHER INFORMATION**

**NFPA**
- Health Hazards: 2
- Flammability: 0
- Instability: 0
- Special Hazards: Not determined

**HMIS**
- Health Hazards: Not determined
- Flammability: Not determined
- Physical Hazards: Not determined
- Protection: Not determined

Issue Date: 01-Feb-2013
Revision Date: 06-Nov-2013
Revision Note: New format

**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