



FLOOR COATING AND FINISHING MATERIAL  
AS TO SLIP RESISTANCE ONLY  
17SU

*Maintenance Solutions*

# Emerald

## Optically Enhanced Floor Cleaner



### FOR USE ON:

|            |                 |             |
|------------|-----------------|-------------|
| Vinyl Tile | Rubber Tile     | Sealed Wood |
| Vinyl      | Concrete        |             |
| Asbestos   | Flagstone Brick |             |
| Linoleum   | Terrazzo        |             |

### DESCRIPTION

A totally synthetic floor cleaner designed for use in a modern floor maintenance program. Its slightly acidic pH will not damage the gloss or film of any finish and is effective at neutralizing harsh cleaner residue left behind from previous use. Contains optical brighteners to enhance the beauty of floors when dry. Controlled foam makes this product ideal for use in automatic scrubbers. Will dissolve all ice melt and hard water films, and never leave the floor with a soap haze.

### DIRECTIONS

Dilute according to conditions of floor as listed below. Dip mop into solution and wring out thoroughly. Mop floor in usual fashion, re-soaking mop and wringing regularly. If solution in bucket becomes dirty, discard and make up fresh solution. Rinsing is not required after use.

**FOR GENERAL FLOOR CLEANING:** Dilute 1-2 ounces of concentrate per gallon of warm water.

**FOR HEAVY DUTY FLOOR CLEANING:** Dilute 2-4 ounces of concentrate per gallon of warm water.

**FOR AUTOMATIC SCRUBBERS:** Dilute 1-2 ounces of concentrate per gallon of warm water.

**AS MOPPING SOLUTION ADDITIVE:** Add 2 to 3 ounces of concentrate per gallon of rinse water. Rinse floor in the usual manner. Waxed or finished floors will be noticeably cleaner and produce more gloss. Will effectively remove ice melt residue.

**AFTER STRIPPING CONDITIONER:** Dilute 16 ounces of concentrate per gallon of water and mop on floor. Pick-up with a wet/dry vac or mop. Allow floor to dry and commence to apply finish.

### PRODUCT SPECIFICATIONS

|                          |                     |                               |                      |
|--------------------------|---------------------|-------------------------------|----------------------|
| <b>Color:</b>            | Green               | <b>Phosphate Content:</b>     | None                 |
| <b>Odor:</b>             | Fresh & Clean       | <b>Solubility:</b>            | Complete with water  |
| <b>Base:</b>             | Sequestering Agents | <b>Rinsability:</b>           | None Required        |
| <b>pH:</b>               | 6.0 - 7.0           | <b>Detergency:</b>            | Excellent            |
| <b>Viscosity:</b>        | Water thin          | <b>Flash Point:</b>           | None (water-based)   |
| <b>Foam:</b>             | Low                 | <b>Storage/Stability:</b>     | 2 years              |
| <b>Abrasives:</b>        | None                | <b>Weight Per Gallon:</b>     | 8.42 lbs. per gallon |
| <b>Biodegradability:</b> | Complete            | <b>Freeze Thaw Stability:</b> | Keep from freezing   |

**SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION**

|                                                                                                                                                                                      |                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Manufacturer's Name:</b><br>Misco Products Corporation<br><b>Manufacturer's Address:</b><br>1048 Stinson Drive Reading, PA 19605<br><b>Manufacturer's Phone #:</b> (610) 926-4106 | <b>Product Name:</b> Emerald<br><b>Generic Name:</b> Optically Enhanced Floor Cleaner<br><b>Chemical Family:</b> Detergent Blend<br><b>Formula:</b> Proprietary |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|

**SECTION 2-INGREDIENT INFORMATION**

| CHEMICAL NAME          | CAS NO.   | WT. %  | PEL | TWA-TLV | STEL-TLV |
|------------------------|-----------|--------|-----|---------|----------|
| Water                  | 7732-18-5 | to 100 |     |         |          |
| Nonionic Surfactant    | 9016-45-9 | 0 to 5 |     |         |          |
| Tetrasodium EDTA       | 64-02-8   | 0 to 5 |     |         |          |
| Citric Acid            | 77-92-9   | 0 to 5 |     |         |          |
| Optical Brightener CBX | N/A       | 0 to 5 |     |         |          |
| Perfume Oil            | N/A       | 0 to 5 |     |         |          |
| Dye                    | N/A       | 0 to 5 |     |         |          |

**SECTION 3-PHYSICAL DATA****SECTION 4-FIRE AND EXPLOSION HAZARD DATA**

|                                                              |                                       |                                                       |
|--------------------------------------------------------------|---------------------------------------|-------------------------------------------------------|
| <b>Boiling Point (°F):</b> 212 F.                            | <b>Specific Gravity:</b> 1.014        | <b>Flash Point (Method Used):</b> N/A                 |
| <b>Vapor Pressure:</b> 20mm Hg @ 68 F.                       | <b>Vapor Density (Air=1):</b> >1      | <b>Upper Explosion Limit:</b> N/A                     |
| <b>% Volatile:</b> 90+                                       | <b>pH:</b> 6.0-7.0                    | <b>Lower Explosion Limit:</b> N/A                     |
| <b>Solubility in Water:</b> Complete                         | <b>Evaporation Rate (Water=1):</b> <1 | <b>Extinguishing Media:</b> N/A                       |
| <b>Physical Description:</b> Thin liquid with pleasant odor. |                                       | <b>Special Firefighting Procedures:</b> Non Flammable |
|                                                              |                                       | <b>Unusual Fire and Explosion Hazards:</b> N/A        |

**SECTION 5-REACTIVITY DATA**

|                                                        |                                                   |
|--------------------------------------------------------|---------------------------------------------------|
| <b>Stability:</b> Stable                               | <b>Hazardous Polymerization:</b> None             |
| <b>Hazards Decomposition Products:</b> Will not occur. | <b>Incompatibility (Materials to Avoid):</b> None |

**SECTION 6-STORAGE AND HANDLING INFORMATION**

Keep out of reach of children. For use by trained personnel only. Keep unauthorized personnel away when applying to floor. Keep container closed during storage. For institutional and industrial use only. Avoid contact with eyes, skin and clothing. Use in well-ventilated area.

**SECTION 7-HEALTH HAZARDS AND FIRST AID****SECTION 8-SPECIAL PROTECTION INFORMATION**

**Effects of Overexposure:**  
**Skin:** Prolonged or repeated contact may cause dermatitis.  
**Eyes:** Eye irritant. May cause redness or swelling.  
**Inhalation:** N/A  
**Ingestion:** May be irritating to the mouth, throat, and gastrointestinal system.  
Vomiting and diarrhea expected with large doses.  
**First Aid Procedures:**  
**Skin:** Flush with water. Seek medical attention if irritation persists.  
**Eyes:** Flush with large quantities of water, holding eyelids open. Seek medical attention.  
**Inhalation:** N/A  
**Ingestion:** Dilute with 2 glasses of water. Seek medical attention if symptoms persist.

**Respiratory Protection:** No special requirements.  
**Ventilation Requirements:** Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.  
**Protective Gloves:** Waterproof recommended.  
**Eye Protection:** Safety glasses or chemical splash goggles.  
**Other Protective Equipment:** N/A

**SECTION 9-SPILL OR LEAK PROCEDURES**

**Steps to be taken in Case Material is Released or Spilled:** Floors will become slippery. Avoid walking in product. Keep unessential personnel away. Mop up or otherwise absorb and hold disposal. Avoid discharge to sewer or open waterways.  
**Waste Disposal Method:** Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. Consult local authorities for disposal in public sewer. Do not dispose of into storm drain, stream, river or to ground. Rinse container thoroughly before discarding in trash.

**SECTION 10-REGULATORY INFORMATION**

|                                                             |                                               |
|-------------------------------------------------------------|-----------------------------------------------|
| <b>SARA Title III - Section 311/312 -Hazard Categories:</b> | <b>Shipping Information:</b>                  |
| No - Fire Hazard                                            | FOR CONTAINERS > 1 Gallon : Cleaning Compound |
| No - Sudden Release of Pressure Hazard                      |                                               |
| No - Reactivity Hazard                                      | FOR 1 GALLON CONTAINERS : Cleaning Compound   |
| Yes - Immediate (acute) Health Hazard                       |                                               |
| No - Delayed (chronic) Health Hazard                        | FOR CONTAINERS < 1 GALLON : Cleaning Compound |

**HMIS Hazardous Materials Identification System**

|                            |          |
|----------------------------|----------|
| <b>Health</b>              | <b>1</b> |
| <b>Flammability</b>        | <b>0</b> |
| <b>Reactivity</b>          | <b>0</b> |
| <b>Personal Protection</b> | <b>B</b> |

**FOR EMERGENCY MEDICAL OR TRANSPORT INFORMATION:** CHEM-TEL, Inc. @ 800-255-3924 (24 hours, 7 days per week)

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

| CAS# | Chemical Name | Percent by Weight |
|------|---------------|-------------------|
|      | None          |                   |

This product contains the following chemical(s) which have been established to be either a carcinogen or suspected carcinogen.

| CAS# | Chemical Name | Percent by Weight |
|------|---------------|-------------------|
|      | None          |                   |

**SECTION 11-OTHER INFORMATION**

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept no liability for damages or loss incurred from the improper handling and use of this product