

# MATERIAL SAFETY DATA SHEET

## MONOPOLE INC.

4661 ALGER STREET  
LOS ANGELES, CA 90039

PRODUCT NAME....: **PERMASHIELD 100 CLEAR & COLORS**

PRODUCT CODE....: 5450, 5455, 5445

MSDS DATE.....: July 2006

**EMERGENCY TELEPHONE NUMBERS:**  
PRODUCT SAFETY & REGULATORY AFFAIRS  
HEALTH EMERGENCY ..... : (818) 500 - 8585  
POISON CENTER ..... : (818) 356 - 3129  
CHEMTREC ..... : (800) 424 - 9300

HAZARDOUS RATING	SCALE
Toxicity.....: 0	4 = Extreme
Fire.....: 0	3 = High
Reactivity.....: 0	2 = Moderate
Special ( Health ).....: 1	1 = Slight
	0 = Insignificant

I. COMPOSITION / INGREDIENTS*:	AMOUNT (%)	OSHA	AGGIH
(CAS NUMBER)	WGT	PEL	TLV (a)
1-METHYL-2-PYRROLIDINONE (872-50-4)	6%	N/A	N/A

*\*No toxic chemicals or hazardous compounds subject to the reporting requirements*

### II. PHYSICAL PROPERTIES:

**Boiling Point**.....: 212-225°F (100°C)      **Solubility in Water**.....: Slight  
**Melting Point**.....: Liquid      **Vapor Pressure**.....: 18.52  
**Coating VOC**.....: 100 g/l      **Appearance and Odor**.....: Milky liquid, Slight Odor  
**Specific Gravity** .....: (H2O=1) 1.08      **% Volatile by Weight**.....: 65% (Water 50%)  
**Vapor Density** .....: nMP: 3.4 (Air=1)

### III. FIRE AND EXPLOSION DATA:

**Flash Point**.....: None  
**Lower**.....: N/A  
**Method Used**.....: N/A  
**Upper**.....: N/A  
**Flammable Limits in Air by Volume** ....: N/A  
**Extinguishing Media**.....: Product does not burn. Aqueous solution is not flammable.  
**Special Firefighting Procedures** .....: No special procedures required.  
**Unusual Fire and Explosion Hazards** ...: No known unusual hazards in fire/explosion situation.

#### **IV. PHYSICAL HAZARDS (REACTIVITY DATA):**

**Stability**..... : Stable  
**Incompatibility (Materials to Avoid) ....** : Avoid contact with acids, peroxides, and strong mineral and oxidizing agents.  
**Hazardous Decomposition Products .....** : May form Carbon Dioxide and Carbon Monoxide from burning.  
**Hazardous Polymerization.....** : Will not occur  
**Conditions to Avoid .....** : Freezing temperature and excess heat.

#### **V. HEALTH HAZARDS:**

**Acute .....** : None reported  
**Signs and Symptoms of Exposure .....** : May cause irritation to eyes and skin  
**Medical Conditions Generally Aggravated by Exposure.....** : None Known  
**Carcinogenicity-NTP?.....** : No  
**Chronic .....** : None reported  
**IARC Monographs? .....** : No  
**OSHA Regulated?.....** : No

#### **VI. EMERGENCY AND FIRST AID PROCEDURES – ROUTES OF ENTRY:**

- 1. Inhalation:** No effect. If affected by odor, remove to fresh air
- 2. Eyes:** Flush thoroughly with water for 20 minutes
- 3. Skin:** Wash thoroughly with soap and water
- 4. Ingestion:** Do not induce vomiting. Consult a physician immediately

#### **VII. SPECIAL PRECAUTION AND SPILL/LEAK PROCEDURES:**

**Steps to be taken in case material is released or spilled:** Stop spill at source. Provide adequate protection for eyes and skin. Use absorbent earth to collect and dispose.  
**Waste disposal method:** Consult federal, state, and local regulations before disposing of the material.  
**Precautions to be taken in handling and storage:** Avoid contact with eyes and skin. Exercise due caution to prevent damage to the container. Keep container tightly sealed.

#### **VIII. SPECIAL PROTECTION INFORMATION/CONTROL MEASURES:**

**Respiratory Protection:** Wear NIOSH approved respirator with dust and fume filter.  
**Ventilation:** General mechanical or local exhaust should be suitable.  
**Protective Gloves:** Impermeable chemical handling gloves, neoprene or vinyl for skin protection.  
**Other Protective Clothing or Equipment:** Protective aprons if splashing or repeated contact is likely.  
**Work/Hygienic Practices:** Observe good industrial hygiene practices. Wash hands thoroughly after using.

#### **IX. DISCLAIMER:**

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