



# Holdout

## Waterproof Semi-Permanent Sealer

### DESCRIPTION

When you need a premium quality, new technology, semi-permanent floor sealer...**Holdout**<sup>®</sup> is your best choice! **Holdout**<sup>®</sup> is scientifically formulated for use on a wide variety of non-wood flooring surfaces, including resilient, concrete, terrazzo and unglazed quarry tile.

**Holdout**<sup>®</sup> is engineered to resist spills found in hospital, health care and other institutional settings.

Since **Holdout**<sup>®</sup> is a sealer, we recommend that any one of our floor finishes be used as a final top-coat such as *Max Shine*.

### DIRECTIONS

To seal interior, aged concrete floors that are subject to foot and hand-cart traffic follow these directions.

#### **Preparation:**

Strip the floor with *#1 Remover* then pick up spent solution with a mop or wet-vac making sure solution does not dry. Rinse floor with *NeutraMax* as per label instructions. Allow floor to dry for 1 - 2 hours.

#### **Application:**

Use a clean finish mop, either fine string or candy striped. Pre-wet with water and wring out mop to conserve finish. Apply an even coat of **Holdout**<sup>®</sup> with a mop. On very porous surfaces a second coat may be applied. Allow 30 - 40 minutes between coats.

**Holdout**<sup>®</sup> can be top coated with any one of the M-chem quality floor finishes.

When applying to new concrete (which must be no less than 90 days old) the surface must be acid washed and rinsed well before using **Holdout**<sup>®</sup>. See your M-chem representative for specific instructions.

**Holdout**<sup>®</sup> covers 1000 to 2000 square feet per gallon depending on porosity of flooring. May be removed with a solution of *#1 Remover* at a use dilution of 128 oz per gallon of water (1000 ml/litre) (1:1).

### PHYSICAL DATA

Solids	15% minimum
Drying Time	30-40 minutes
Film Color	Clear, colorless
Slip Resistance	Passes ASTM D2047
Performance	Excellent Durability, Leveling, Scrubability and Black mark resistance.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **HOLDOUT<sup>®</sup>**

WHMIS CODE: D2B  
 Proper Shipping Name: N/A  
 Hazard Class: N/A  
 UN Number: N/A

HMIS	
1	Health
0	Flammability
0	Reactivity
B	Personal

Product Use *Floor Sealer, Semi-Permanent.*

M-chem Technologies Inc.  
 1607 Derwent Way  
 Delta, BC V3M 6K8, Canada  
 Phone: (604) 526-5655

**EMERGENCY PHONE**  
 Canada: Canutec 613-996-6666  
 U.S.A.: Chemtrec 800-424-9300

A=Goggles, B=Goggles & Gloves  
 C=Goggles, Gloves and Apron

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

## SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
<b>DIETHYLENE GLYCOL MONOETHYL ETHER</b>	111-90-0	1.0-5.0	N/E	N/E
The above item is reported per 40 CFR 372, Section 313 of Emergency Planning and Community Right to Know Act of 1986.				
LD50 (Oral-Rat)	5540 mg/kg			
LD50 (Dermal-Rat)	6000 ml/kg			
LC50	No Data			
<b>DIBUTYL PHTHALATE</b>	84-74-2	1.0-5.0	5 mg/m3	5 mg/m3
The above item is reported per 40 CFR 372, Section 313 of Emergency Planning and Community Right to Know Act of 1986				
LD50	8000 mg/kg			
LD50	>20 ml/kg (Rabbit)			
LC50	2500 mg/m3, 2hrs. (Mouse)			
<b>TRI-BUTOXYETHYL PHOSPHATE</b>	78-51-3	1.0-5.0	N/A	NA
LD50	NA			
LD50	NA			
LC50	NA			

## SECTION 3 – PHYSICAL DATA

**Color and Odor:** Milky white, characteristic odor. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 8.5 – 9.5  
**Physical State:** Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.018 @ 20°C  
**Coef. Water/Oil Dist:** Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** No Data

## SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

**Flash Point and Method:** None to 100°C **Sensitivity to Mechanical Impact:** None. **Extinguishing Media:** Not flammable.  
**Flammable Limits:** None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.  
**Unusual Fire and Explosion Hazards:** None. **Conditions of Flammability:** None.  
**Hazardous Combustion Products:** Decomposition may produce carbon oxides and/or acrylic monomers.  
**Special Fire Fighting:** Wear NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situation.

## SECTION 5 – REACTIVITY DATA

**Chemical Stability:** Stable under normal storage conditions. **Hazardous Polymerization:** Will not Occur.  
**Incompatibility (material to avoid):** Strong acids, alkalis, heavy metal salts and oxidizing agents.  
**Hazardous Decomposition Products:** Carbon oxides and acrylic monomer fumes upon thermal decomposition.

## SECTION 6 – TOXICOLOGICAL DATA

**Exposure Limits:** See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin, eyes, inhalation.  
**Irritancy of Product:** May be irritating to skin and eyes. **Carcinogenicity:** None known.  
**Sensitization:** None known. **Teratogenicity:** None known. **Mutagenicity:** None known.  
**Name of Toxicological Synergistic Product:** None known. **Reproductive Toxicity:** None known.  
**Effects of Chronic Exposure:** Prolonged or repeated exposure may cause skin irritation or dermatitis.  
**Effects of Acute Exposure to Product:** Product exposure may irritate skin and eyes. Prolonged inhalation of vapors or mists may irritate respiratory system. Ingestion may cause gastro-intestinal and abdominal discomfort.

## SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

**Respiratory Protection:** Not required for normal use of product.  
**Ventilation:** Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.  
**Protective Gloves:** Not required for normal use of product. Use Butyl rubber or Neoprene gloves when handling directly.  
**Eye Protection:** Normally not required. However, Chemical goggles or safety glasses when eye contact may occur.  
**Protective Clothing and Equipment:** Long sleeve coveralls. Eye wash recommended in the immediate work area.  
**Storage and Handling Procedures:** Use good Industrial hygiene. Avoid contact with skin, eyes and clothing. Store in a cool, dry place away for incompatibles. Keep container closed when not in use. Do not mix with other chemicals. Store at temperatures below 30°C and keep from freezing.  
**Disposal Procedures for Spills or Leaks:** Wear protective equipment. Soak up spills with absorbents, then dispose of in an appropriate waste container. Keep material away from sewers.  
**Waste Disposal Method:** Reuse or neutralize with soda ash or sodium bicarbonate if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.  
**Special Shipping Information:** Keep from freezing and temperatures above 30°C.

## SECTION 8 – EMERGENCY FIRST AID PROCEDURES

**First Aid:**  
 If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

## PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division      PHONE: 604-526-5655      LAST UPDATE: 07/04/11  
 THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE