

## HM-440 Penetrant

### 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** HM-440 Penetrant  
**SDS Number:** HM-440  
**Revision Date:** 6/14/2022  
**Product Use:** NDT Inspection penetrant "Type 1 Methods "A" and "C" per AMS-2644/ ASTM E-1417  
**Supplier Details:** Sherwin Inc.  
 5530 Borwick Avenue  
 South Gate, CA 90280  
**Phone:** 562-861-6324  
**Email:** sherwin@sherwininc.com  
**Internet:** www.sherwininc.com

**Emergency telephone number:**

ChemTel 1-800-255-3924 in U.S.A, Canada, Puerto Rico and US Virgin Islands;  
 ChemTel +01-813-248-0585 outside U.S.A, Canada, Puerto Rico and US Virgin Islands  
 ChemTel Brazil: 0-800-591-6042, China: 400-120-0751, India: 000-800-100-4086 and Mexico: 01-800-099-0731

### 2 HAZARDS IDENTIFICATION

**Classification of Substance**

**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Health, Skin corrosion/irritation, 2  
 Health, Serious Eye Damage/Eye Irritation, 1

**GHS Label Elements, Including Precautionary Statements**

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

H315 - Causes skin irritation  
 H318 - Causes serious eye damage

**GHS Precautionary Statements:**

P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 - Immediately call a doctor  
 P332 + P313 - If skin irritation occurs: Get medical advice/attention.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Ingredients:**

**CAS#**

**% Chemical Name:**

84133-50-6  
 25322-68-3

50-70% Alcohols, C12-14-secondary, ethoxylated  
 <3% Polyethylene glycols

### 4 FIRST AID MEASURES

**Inhalation:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.



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**Skin Contact:** Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor  
**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.  
 Get immediate medical attention.  
**Ingestion:** Do NOT induce vomiting or attempt chemical neutralization. Seek immediate medical attention For spontaneous vomiting, keep head below hips.

### 5 FIRE FIGHTING MEASURES

**Flash Point:** > 93 °C (> 200 °F) (ASTM D-93)  
 Suitable extinguishing agents: Water haze, Foam, ABC powder  
 Special hazards arising from the substance or mixture Carbon monoxide and carbon dioxide  
 Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.

### 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation  
**Environmental precautions:** Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.  
**Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Collect liquid in an appropriate container or absorb with an inert material such as vermiculite, dry sand, or earth; DO NOT use combustible materials. Place in a chemical waste container.

### 7 HANDLING AND STORAGE

**Handling Precautions:** Avoid contact with eyes, skin, or clothing. Consider normal working hygiene.  
**Storage Requirements:** Keep container tightly closed in a dry and well-ventilated place.  
 Containers which are opened must be carefully re-sealed and kept upright to prevent leakage.  
 Containers may be hazardous when empty since residue liquid may be present

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Use mechanical (general) ventilation for storage areas.  
**Personal Protective Equipment:** Chemical resistant gloves;  
 Chemical safety glasses;  
 No personal respiratory protective equipment normally required. In case of vapor formation or aerosols use an organic vapor respirator with dust, mist, and fume filters;  
 Impervious clothing.

<b>Exposure Limits:</b>	CAS NO.	COMPONENT		
	25322-68-3	Poyethylene glycol	10 mg/m3	TWA





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Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.  
Avoid contact with eyes and skin.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Yellow fluorescent liquid	<b>Odor:</b>	Mild
<b>Spec Grav./Density:</b>	0.98	<b>Solubility:</b>	Soluble in water
<b>Viscosity:</b>	Kinematic at 37.8 °C (100 °F): 10.5 cSts (ASTM D455)	<b>Flash Point:</b>	> 93 °C (> 199 °F) (ASTM D-93)
<b>Boiling Point:</b>	240 °C (464 °F)	<b>Auto-Ignition Temp:</b>	No data available
<b>Vapor Pressure:</b>	< 0.01 mmHg @ 20 °C (68 °F)	<b>UFL/LFL:</b>	No data available

**10 STABILITY AND REACTIVITY**

<b>Reactivity:</b>	No dangerous reaction under normal use.
<b>Chemical Stability:</b>	Product is stable under normal conditions.
<b>Conditions to Avoid Identification:</b>	Elevated temperatures
<b>Materials to Avoid Identification:</b>	Strong Acids; Strong Bases Strong Oxidizing Agents.
<b>Hazardous Decomposition:</b>	No dangerous decomposition products known
<b>Hazardous Polymerization:</b>	Will not occur.

**11 TOXICOLOGICAL INFORMATION**

Risk of serious damage to eyes.  
Irritating to skin.

Acute oral toxicity: LD/50 (Rat) estimated >3000 mg/kg  
Acute dermal toxicity: LD/50 (Rabbit) estimated >2000 mg/kg

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.



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### 12 ECOLOGICAL INFORMATION

#### Ecotoxicity

84133-50-6 Secondary alcohol ethoxylates : LC50/96h: 1-10 mg/l (Fish)  
EC50/48h: 3.1 - 4.1 mg/l (daphnia)

Toxic to aquatic life

#### Persistency and degradability

Readily biodegradable.

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

### 13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, state and federal regulations  
Collect all waste in suitable and labeled containers and dispose according to local legislation.

### 14 TRANSPORT INFORMATION

DOT, IATA, IMDG

Not regulated

### 15 REGULATORY INFORMATION

**Toxic Substances Control Act, TSCA:** All components listed

**OSHA Hazards:** Toxic by inhalation. Severe eye irritant. Moderate skin and respiratory irritant.

**CERCLA Reportable Quantity:** This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity:** This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards:** Acute Health hazard

**SARA 302:** No chemicals in this material are subject to the reporting.

**SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).  
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A; Section 311,



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Table 117.3; Section 307

United States TSCA Inventory listed

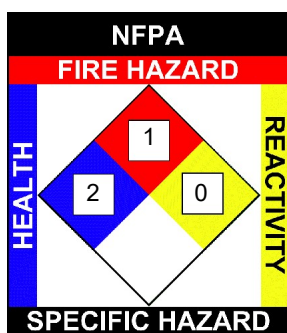
### California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

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### OTHER INFORMATION

NFPA: Health = 2, Fire = 1, Reactivity = 0, Specific Hazard = n/a



This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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