

## HM-2D

### 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** HM-2D  
**SDS Number:** HM-2D  
**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 +1-813-248-0585 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, Aspiration hazard, 1  
Health, Serious Eye Damage/Eye Irritation, 1  
Health, Skin corrosion/irritation, 2

#### GHS Label Elements, Including Precautionary Statements

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

#### GHS Hazard Pictograms:



#### GHS Hazard Statements:

H304 - May be fatal if swallowed and enters airways  
H318 - Causes serious eye damage  
H315 - Causes skin irritation

#### GHS Precautionary Statements:

P264 - Wash ... thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P310 - IF SWALLOWED: Immediately call a doctor  
P302 + P352 - IF ON SKIN: Wash with plenty of water. If irritation persists get medical attention.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P331 - Do NOT induce vomiting.  
P332 + P313 - If skin irritation occurs: Get medical advice/attention.  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.



## HM-2D

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
84133-50-6	25-50%	Alcohols, C12-14-secondary, ethoxylated
64742-47-8	40-65%	Distillates (petroleum), hydrotreated light
25322-68-3	<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.
- 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 to facilitate irrigation. Get immediate medical attention.
- Ingestion:** Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do NOT induce vomiting or attempt chemical neutralization. If symptoms persist, call a physician.

### 5 FIRE FIGHTING MEASURES

- Flash Point:** > 93 °C (> 200 °F)
- Flash Point Method:** ASTM D-93
- Autoignition Temp:** Not determined
- Lower Explosive Limit:** Not determined
- UEL:** Not determined
- 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
- Unsuitable extinguishing media:** High volume water jet

### 6 ACCIDENTAL RELEASE MEASURES

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

## HM-2D

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.

**Exposure Limits:**

CAS NO.	COMPONENT	Limit
25322-68-3	Poyethylene glycol	10 mg/m3 TWA



**General protective and hygienic measures:** 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	<b>Odor:</b>	Mild
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Soluble in water
<b>Spec Grav./Density:</b>	0.89	<b>Flash Point:</b>	> 93 °C (> 199 °F) (ASTM D-93)
<b>Viscosity:</b>	Kinematic at 37.8 °C (100 °F): 6.8 cSts (ASTM D455)	<b>Vapor Density:</b>	> 1 @ 20 - 25 °C (68 - 77 °F) (Air = 1.0)
<b>Boiling Point:</b>	240 °C (464 °F)	<b>Auto-ignition Temp:</b>	No data available
<b>Vapor Pressure:</b>	< 0.1 mmHg @ 20 °C (68 °F)	<b>UFL/LFL:</b>	No data available
<b>pH:</b>	5.5 - 7.5 @ 1 % @ 20 - 25 °C (68 - 77 °F)		
<b>Evaporation Rate:</b>	Not determined		

### 10 STABILITY AND REACTIVITY

**Reactivity:** No dangerous reaction under normal use.  
**Chemical Stability:** Product is stable under normal conditions.  
**Conditions to Avoid:** Elevated temperatures  
**Materials to Avoid:** Strong Acids;



## HM-2D

**Hazardous Decomposition:** Strong Bases  
Strong Oxidizing Agents.  
**Hazardous Polymerization:** No dangerous decomposition products known  
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.

### 12 ECOLOGICAL INFORMATION

**Ecotoxicity**

84133-50-6 Secondary alcohol ethoxylates : LC50/96h: 3.5 - 4.9 mg/l (Fish)  
EC50/48h: 3.1 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

Empty containers may retain product residue ( liquid and/or vapor) and can be dangerous.

### 14 TRANSPORT INFORMATION

DOT, IATA, IMDG

Not regulated

### 15 REGULATORY INFORMATION

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

**SARA 302:** No chemicals in this product are subject to reporting requirements of SARA Title III, Section 302



## HM-2D

**SARA 304 Emergency release notification:** Not regulated.

**SARA 311/312 Hazards:** Immediate (acute) health hazard

**SARA 313:** This product does not contain a chemical listed at or above de minimis concentration

**CERCLA Reportable Quantity:** None

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):** Not regulated.

**Safe Drinking Water Act:** Not regulated.

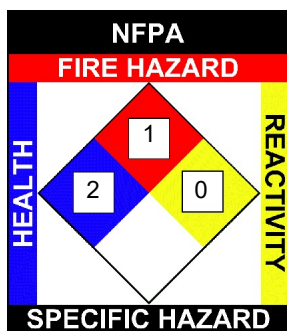
**Prop 65:** This product does not contain any ingredient known to the State of California to cause cancer or reproductive toxicity

**Waste Classification:** This product does not meet RCRA's characteristic definition of ignitibility, corrosivity, or reactivity and is not a listed waste nor listed in 40CFR 261.33  
This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

16

### 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.

**Author:** Sherwin Inc.

**Publication Date:** June 14, 2022

**Revision No. 0**

Revision Date: 6/14/2022