

**MATERIAL SAFETY DATA SHEET**  
**Sherwin Incorporated**

**HM-2D**

**DATE PREPARED: May 2013**

**SECTION 1 PRODUCT INFORMATION**

PRODUCT NAME: DUBL-CHEK Penetrant HM-2D

PRODUCT USE: Liquid penetrant non-destructive inspection

MANUFACTURER'S NAME: Sherwin Incorporated ADDRESS: 5530 Borwick Ave, South Gate, California, USA 90280

EMERGENCY TELEPHONE NUMBERS: CHEMTREC (800) 424-9300 Sherwin Inc. 562-861-6324

**SECTION 2 HAZARDOUS INGREDIENTS**

<u>Hazardous Ingredient</u>	<u>%</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Aliphatic oil refined, hydrotreated middle distillate	50-60	64742-46-7	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Nonionic surface active agent	30-40	84133-50-6	none listed	none listed

**SECTION 3 PHYSICAL DATA**

Appearance and odor: yellow-green liquid, petroleum odor

Specific Gravity at Deg F: 0.87 Vapor Pressure, mmHg at Deg F: n/a

Vapor Density (air=1): n/a Evaporation Rate, n-Bu Acetate=1: n/a Solubility in Water: Emulsifiable

Boiling Point Deg F: 440°F Freezing Point, Deg F: n/a pH: n/a

**SECTION 4 FIRE AND EXPLOSION DATA**

Flammability: No Flash Point: >200°F ASTM D93

Flammable Limits: LEL: n/a UEL: n/a

Hazardous Composition Products: Burning can produce toxic vapors which are harmful if inhaled ,as well as, carbon monoxide, and /or carbon dioxide

Extinguishing media: Large fires: apply alcohol-type or all purpose foam by mfr's recommended techniques.  
Small fires; use carbon Dioxide, or dry chemical

Special Fire Fighting Instructions: Do not direct solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity. Firefighters should use self-contained breathing apparatus and protective coating..

**SECTION 5 REACTIVITY DATA**

Stability: Stable

Conditions to Avoid: Open flames, Build up of vapors, high temperatures, hazards normally incompatible with petroleum oils.

Incompatibility: Normally unreactive; however, avoid strong oxidizing materials

Hazardous Decomposition or Byproducts: Burning can produce toxic vapors which are harmful if inhaled ,as well as, carbon monoxide, and /or carbon dioxide

Hazardous polymerization: will not occur

**SECTION 6 HEALTH HAZARD DATA**

Routes of Entry: Eyes: Primary Inhalation: Secondary Skin: Primary Ingestion: unlikely

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Effects of Exposure (acute and chronic):

Eye contact: Causes moderate to severe irritation, experienced as discomfort or pain, excess blinking and tear production, with marked excess redness and swelling of the conjunctiva. corneal injury may occur.

Breathing vapors: Short term harmful effects are not expected from vapor generated at ambient temperatures.

Skin contact: Prolonged or wide spread contact may result in the absorption of potentially harmful amounts of material.

Swallowing: May cause irritation of the nose and mouth, abdominal discomfort, , nausea, vomiting and diarrhea.

Carcinogenicity: NTP: No IARC: No

Signs and Symptoms of Exposure: Eyes: Irritation Inhalation: Light headiness Skin: Moderate irritation

Medical Conditions Generally Aggravated by Exposure: Skin contact may aggravate an existing dermatitis condition.

**SECTION 7 PREVENTIVE MEASURES**

Personal Protective Equipment: Gloves: Yes Respirator: See below Eye: Yes Other: No

For open systems where contact is likely, wear safety glasses with side shields, long sleeves, and chemical resistant gloves.

Where contact may occur, wear safety glasses with side shields.

Concentrations in air, vapors or mist, that may exceed the limits given and engineering, work practice or other means of exposure reduction are not adequate s then , NIOSH approved respirators may be necessary to prevent overexposure by inhalation.

Engineering Controls: The use of local exhaust ventilation is recommended . Room ventilation is expected to be satisfactory.

Work/Hygiene Practices: Wash before eating. DO NOT smoke.

Leak and Spill Procedure: Wear eye and skin protection. Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials, e.g., sand earth. Avoid discharge to natural waters. Transfer liquids and solids to suitable containers for recovery and disposal. The material is water miscible and final clean-up with water to remove surface residue is permissible. Immediately extinguish all flames and sources of ignition.

Waste Disposal: Place contaminated materials in disposable containers and dispose of where permitted under local. State and federal regulations. Incinerate in furnace where permitted.

Storage and Handling: Do not splash or create mists or vapors. Keep containers closed. Store away from open flame and high temperatures. DO NOT cut heat, drill or weld on or near containers. Empty product containers may contain product residue and vapors. Dispose of empty containers properly. Use of this product at elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions

**SECTION 8 FIRST AID MEASURES**

Eye Contact: Flush eyes with large amounts of water for at least 15 minutes. Obtain medical attention without delay preferably from an ophthalmologist..

Skin Contact: Flush with large amounts of water; use soap if available. Remove and wash contaminated clothing, including shoes.

Inhalation: Immediately remove to fresh air. Administer artificial respiration if breathing is stopped. Call for prompt medical attention.

Ingestion: DO NOT induce vomiting. If vomiting, keep head below hips to prevent aspiration. Get prompt medical attention.

**SECTION 9 PREPARATION INFORMATION**

Prepared by: Technical Department

Telephone: 562-861-6324

Preparation date: May 2013

HMIS: Health – 2 Flammability -1 Reactivity – 0 Protective Equipment - B

KEY: 4 = Severe 3 = Serious 2 = Moderate 1 = Slight 0 = Minimal

Revision Summary: This information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users' responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this neither information nor do we offer warranty against patent infringement.