

**MATERIAL SAFETY DATA SHEET – USA VERSION****Surfzyme Penetrant****1. IDENTIFICATION OF SUBSTANCE/PREPARATION & THE COMPANY**

**PRODUCT NAME:** Surfzyme Penetrant  
**PART NUMBER:** 50100  
**MANUFACTURER:** ZYMO USA Inc.  
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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

INGREDIENT NAME:	CAS No.:	CONTENT:	SYMBOL:	RISK:
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Trade Secret

**3. HAZARDS IDENTIFICATION**

Acute health hazard

**4. FIRST AID MEASURES**

**INHALATION:** Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Provide oxygen as needed

**INGESTION:** Promptly get affected personnel to drink ½ liter of luke warm water to dilute the swallowed chemical. DO NOT induce vomiting. Get medical attention immediately.

**SKIN:** Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention promptly if irritation occurs after washing.

**EYES:** Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

**5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** SMALL FIRES: Use dry chemicals, CO<sub>2</sub>, or alcohol-resistant foam.  
LARGE FIRES: water stream, water fog or alcohol-resistant foam

<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Do not use solid water stream as this may spread the fire.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	Product releases flammable vapors that when mixed with air and an ignition source can burn in the open or explode when confined.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Oxides of: Nitrogen.
<b>PROTECTIVE MEASURES IN FIRES:</b>	As in any fire, wear an approved, positive-pressure, self-contained breathing apparatus and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES:

<b>PERSONAL PRECAUTION IN SPILL:</b>	Wear appropriate protective equipment (see Section 8). Use only non-sparking tools and eliminate all ignition sources.
<b>SPILL CLEANUP METHODS:</b>	Collect for reclamation or absorb in vermiculite, dry sand or similar material and transfer to containers for disposal. Prevent entry into waterways and sewers. Use only non-sparking tools.

## 7. HANDLING AND STORAGE

<b>USAGE PRECAUTIONS:</b>	Use only non-sparking tools. Keep area well vented and wear recommended personal protective equipment.
<b>USAGE DESCRIPTION:</b>	Penetrating solvent
<b>STORAGE PRECAUTIONS:</b>	Store above freezing. Keep containers tightly closed. Steel containers are recommended for storage as this material may attack some forms of rubber, plastic and coatings over prolonged exposure.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

### PROTECTIVE EQUIPMENT:



<b>VENTILATION:</b>	Good local and general ventilation is needed to control exposure.
<b>RESPIRATORS:</b>	Respirators should be worn in confined or non-ventilated areas
<b>PROTECTIVE GLOVES:</b>	Use rubber gloves. Butyl rubber, nitrile, or teflon
<b>EYE PROTECTION:</b>	Wear approved chemical safety goggles where eye exposure is reasonably probable.
<b>OTHER PROTECTION:</b>	Wear rubber apron. Provide eyewash station.
<b>HYGIENIC WORK PRACTICES:</b>	Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes wet or contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.
<b>EXPOSURE LIMIT:</b>	No exposure limits known

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE:</b>	Liquid.	
<b>COLOUR:</b>	Clear	
<b>ODOR/TASTE</b>	Mild	
<b>SOLUBILITY IN WATER:</b>	< 1%	
<b>BOILING POINT (°C, interval):</b>	~273 C	PRESSURE: 50 mmHg
<b>pH VALUE:</b>	6-7	
<b>FLASH POINT (°C):</b>	>100 C	METHOD: PM Closed cup.
<b>DENSITY/SPECIFIC GRAVITY (g/ml):</b>	~.957	TEMPERATURE (°C): 25

**10. STABILITY AND REACTIVITY**

<b>STABILITY:</b>	Normally stable.
<b>CONDITIONS TO AVOID:</b>	Heat, sparks, open flame, and other ignition sources
<b>HAZARDOUS POLYMERIZATION:</b>	Not expected to occur
<b>MATERIALS TO AVOID:</b>	Acids, Alkalis, and strong oxidizing agents
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO).

**11. TOXICOLOGICAL INFORMATION**

<b>TOXICOLOGICAL INFORMATION:</b>	No information is available
<b>TOXIC DOSE – LD 50:</b>	No information is available
<b>SKIN:</b>	No information is available
<b>EYES:</b>	May cause irritation

**12. ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:** No data on possible environmental effects have been found. No short term or long term effect on the environment is expected.

**DEGRADABILITY:** Water solubility low and volatility indicate unlikely bioaccumulation. Material is expected to be inherently biodegradable.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHODS:** Recover and reclaim or recycle, if practical. Dispose of in accordance with Local Authority requirements. Confirm disposal procedures with environmental engineer and local regulations.

**14. TRANSPORT INFORMATION**

**GENERAL:** Not Regulated

**ROAD TRANSPORT:** Not Regulated

**UN No. ROAD:** Blend

**15. REGULATORY INFORMATION**

In accordance with the directive 1999/45/EC and 2001/58/EC

**LABEL FOR SUPPLY:**

**RISK PHRASES:** None known

**SAFETY PHRASES:** S-37 Wear suitable gloves  
S-39 Wear eye/face protection

**16. OTHER INFORMATION**

**USER NOTES:** To the best of our knowledge, the information contained herein is accurate. However, neither ZYMO USA Inc. nor any of its subsidiaries or agents assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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**SARA 302/304:** None

**SARA 311/312:** None

**SARA 313:** None

**State Reporting Status:** None