

MATERIAL SAFETY DATA SHEET

HENRY®

444

Prepared 11/98 - Replaces 7/97

The W. W. Henry Company

400 Ardex Park Drive

Aliquippa, PA 15001

Technical Support: 1-800-232-4832

Internet: wwhenry.com

I. PRODUCT IDENTIFICATION

Name: Henry 444 FRP Panel Adhesive
Description: Filled, water-dispersed latex adhesive

II. DEPT. OF TRANSPORTATION INFORMATION

SHIPPING NAME: Not classified. HAZARD CLASS: N/A. ID#: N/A.
EMERGENCY ONLY CONTACT: CHEM-TEL-1-800-255-3924

III. HMIS (0=minimal hazard; 4 = severe hazard)

Health = 1 Flammability = 1 Reactivity = 0

IV. PRODUCT CONTENT

This product contains chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372. All components are on TSCA inventory. This product does NOT contain asbestos.

V. HAZARDOUS INGREDIENTS

INGREDIENT:	CAS #	PERCENT:	OCCUP. EXPOS. LMT.
VM&P Naphtha	64742-89-8	1 - 2	PEL: 300 ppm TLV: 300 ppm STEL: 400 ppm
Toluene	108-88-3	< 1	100 ppm STEL: 150 ppm 50 ppm (skin)

VI. PHYSICAL DATA

APPEARANCE: Off-white creamy paste. ODOR: Mild. BOILING POINT: 212°F. MELTING POINT: N/A. VAPOR PRESSURE (mm Hg @ 20°C): 18 mm Liq. VAPOR DENSITY: Lighter than air. % VOLATILE BY WEIGHT (30 min. @ 275°F): 27.0%. EVAPORATION RATE: <1. WT/GAL (water =8.3): 11.54#. SOLUBILITY IN WATER: Miscible, dispersible. SPECIFIC GRAVITY: 1.386. VOC: 52 g/l calculated at 70°F/21°C, SCAQMD. pH: 9.3 ± .1.

VII. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD): > 200° F (Setaflash Closed Tester). FLAMMABLE RANGE: LEL: N/A; UEL: N/A. EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, water spray. SPECIAL FIRE FIGHTING PROCEDURES: Protect fire fighters from toxic products of combustion by wearing self-contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers in a fire may rupture due to pressure build-up; use water to cool containers to prevent this.

VIII. HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: Inhalation, ingestion, and direct dermal exposure. TARGET ORGANS: Upper respiratory tract, skin, eyes. EFFECTS OF OVEREXPOSURE: SKIN AND EYES: Excessive skin contact may cause drying and cracking of the skin, defatting of tissue, and result in dermatitis. Contact with eyes may cause irritation. INHALATION: VM&P Naphtha and toluene may cause irritation of respiratory tract, coughing, and CNS effects such as headache, dizziness, drowsiness or nausea. CARCINOGENICITY: NTP: No; IARC Monographs: No; OSHA Regulated: No. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Any condition generally aggravated by solvents, including pre-existing upper respiratory and lung disease such as, but not limited to bronchitis, emphysema, and asthma. Existing skin conditions. FIRST AID PROCEDURES: SKIN AND EYES: Flush any eye contact with plenty of water. Additionally with skin contact, wash with soap and water. Refer to physician if irritation or symptoms persist. INHALATION: Remove to fresh air if exposed to excess concentrations of vapor. Seek medical attention if symptoms persist. INGESTION: Do not induce vomiting. Call a Poison Control Center or physician for guidance.

IX. REACTIVITY DATA

STABILITY: Stable. INCOMPATIBILITY: Strong oxidizing agents. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, and other toxic vapors and gases that are common to thermal degradation of organic compounds. HAZARDOUS POLYMERIZATION: Will not occur.

X. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area of spill or release. Contain spill, preventing it from entering sewer lines or waterways. Use absorbent to assist with the pick-up of material. Scrape up product and place into container. Residual of product, while still wet, can be cleaned up with warm soapy water. WASTE DISPOSAL METHOD: Dispose of container and any unused contents in accordance with Federal, State, and Local Waste Disposal Regulations. Do not flush unused contents or residue down drains. Do not reuse container.

XI. SPECIAL HANDLING AND USE INFORMATION

VENTILATION: Use natural cross-ventilation, local (mechanical) pick-up, and/or general area (mechanical) ventilation to prevent an accumulation of solvent vapors, keeping in mind that the ventilation pattern must remove the heavier-than-air solvent vapors from the lower levels of the work spaces. The ventilation should be sufficient to keep the solvent vapor concentration below the TLV. RESPIRATORY PROTECTION: With adequate ventilation, respiratory equipment should not be needed. If adequate ventilation is not afforded, wear respiratory equipment approved for organic vapors. SKIN AND EYE PROTECTION: During normal end-product use, cotton or loop-pile gloves and spectacle-type safety glasses are recommended to prevent contact with this mastic product.

XII. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in an area suitable for combustible mixtures. Recommended storage temperature is below 90° F. OTHER PRECAUTIONS: Vapors are heavier-than-air. Use precautions that are common with the safe handling of combustible liquids. WARNING: This product contains toluene, a chemical known to the state of California to cause birth defects or other reproductive harm. WORK SITE ENVIRONMENT: Initially there may be a potential adverse impact on indoor air quality within the general work area during the installation process. Therefore you should advise the building manager or other appropriate person that: • It will be necessary to establish and maintain adequate ventilation of the work area, without causing the entry of contaminants to other parts of building; and • Persons who are sensitive to odors and/or chemicals should be advised to avoid the work area during this process.

The information presented herein is supplied as a guide to those who handle or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

N/A - not applicable or not available

N/K - none known or not known