The W.W. Henry Company
400 Ardex Park Drive
Aliquippa, PA 15001
Tel: (724) 203-8499

MATERIAL SAFETY DATA SHEET

Use in case of emergency only: **CHEM-TEL** – 1-800-255-3924
Or call collect: 1-813-248-0585

Visit our Website: http://www.wwhenry.com

SECTION I - MATERIAL IDENTIFICATION AND USE

Henry 440 Cove Base Adhesive

HMIS Hazard Index

4 Severe Hazard	HEALTH……1
3 Serious Hazard	FLAMMABILITY……...1
2 Moderate Hazard	REACTIVITY……0
1 Slight Hazard	PERSONAL PROTECTION..B
0 Minimal Hazard	

WHMIS Classification:

D2B – Toxic material with other toxic effects

CHEMICAL NAME	CHEMICAL FAMILY	CHEMICAL FORMULA
Not Applicable	Not Applicable	Not Applicable
TRADE NAME AND SYNONYMS	**MOLECULAR WEIGHT**	**MATERIAL USE**
Henry 430	Not Applicable	Water based adhesive

SECTION II – HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	%	C.A.S. NUMBERS	LD50 (SPECIES & ROUTE)	LC50 (SPECIES & ROUTE)
Solvent Naphtha (Petroleum), light aliphatic	1-5	64742-89-8	Not available	Not available
Propylene glycol	1-5	57-55-6	> 20 g/kg (rat, oral)	Not available

*This product does **NOT** contain asbestos.*

SECTION III – PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE		ODOUR AND APPEARANCE	
Tan colored paste (liquid)		Mild solvent odour and tan colored paste	
ODOUR THRESHOLD (PPM)	**SPECIFIC GRAVITY**	**VAPOR PRESSURE**	**VAPOR DENSITY (Air = 1)**
Not available	(H_20=1): 1.10	Not available	Heavier than air
EVAPORATION RATE	**BOILING POINT**	**FREEZING POINT**	**SOLUBILITY IN WATER**
Not available	98-121°C (210-250 F)	Not available	Appreciable

% VOLATILE (BY WEIGHT)	PH		COEFFICIENT OF WATER
Not available	8.95		Not available

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY
Product is combustible at high temperatures (> 93.3°C).

MEANS OF EXTINCTION
Use Carbon Dioxide, Dry Chemicals, or Water Spray.

SPECIAL PROCEDURES
Closed containers in a fire may rupture due to pressure build-up; use water to cool containers to prevent this from happening. For general fire fighting, protect fire fighters from toxic products of combustion by wearing self-contained breathing apparatus.

FLASHPOINT AND METHOD	UPPER EXPLOSION LIMIT (% BY VOLUME)	LOWER EXPLOSION LIMIT (% BY VOLUME)
> 93.3°C Setaflash Closed Tester > 200 °F	Not Available	Not Available

AUTOIGNITION TEMPERATURE	HAZARDOUS COMBUSTION PRODUCTS
Not Available	Refer to Hazardous Decomposition Products in Section V.

SENSITIVITY TO MECHANICAL IMPACT	SENSITIVITY TO STATIC DISCHARGE
Not normally sensitive	Not normally sensitive

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY
Stable

INCOMPATIBILITY TO OTHER SUBSTANCES
Reacts with strong oxidizing agents.

REACTIVITY AND UNDER WHAT CONDITIONS
Hazardous polymerization will not occur. Do not heat this material.

HAZARDOUS DECOMPOSITION PRODUCTS
Carbon monoxide, carbon dioxide, and other toxic vapours and gases that are common to thermal degradation or organic compounds.

SECTION VI - TOXICOLOGICAL PROPERTIES OF MATERIAL

ROUTE OF ENTRY
Inhalation, ingestion, and direct dermal exposures are the most likely routes of exposure.

EFFECTS OF ACUTE EXPOSURE TO MATERIAL
Inhalation: The product may cause irritation of respiratory track, coughing, and CNS effects such as headache, dizziness, drowsiness or nausea.

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.

Ingestion: Unknown. May cause nausea, irritation to throat and digestive tract.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL
No condition generally aggravated by this product.

MATERIAL NAME/IDENTIFIER *HENRY 440 Cove Base Adhesive*	
LD50 OF MATERIAL (SPECIES & ROUTE) Not available for product - See Section II	**LC50 OF MATERIAL (SPECIES & ROUTE)** Not available for product
EXPOSURE (LIMITS) TLV-TWA and PEL is 300 ppm; STEL is 400 ppm	**IRRITANCY OF MATERIAL** Low degree of irritation
SENSITIZATION OF MATERIAL Not Available	**SYNERGISTIC MATERIALS** Not Available

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY

Carcinogenicity: No ingredient rated as a carcinogen by IARC or ACGIH.

Reproductive toxicity, teratogenicity, mutagenicity: None known.

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: With adequate ventilation, respiratory equipment should not be needed. If adequate ventilation is not afforded, wear approved respirator for organic vapours.

Skin and Eye Protection: During normal end-product use, impervious gloves and spectacle-type safety glasses are recommended to prevent contact with this product.

ENGINEERING CONTROLS (E.G. VENTILATION, ENCLOSED PROCESS)

Use natural cross-ventilation, local (mechanical) pick up, and or general area (mechanical) ventilation to prevent an accumulation of solvent vapours.

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 allowing contaminants to enter other parts of the building; and
- Persons who are sensitive to odours and/or chemicals should be advised to avoid the work area during this process.

LEAK AND SPILL PROCEDURE

Ventilate area of spill or release. Contain material, preventing it from entering sewer lines or waterways. Use absorbents to assist the pick up of material. Scrape up product and place it into a container for disposal. Residual of product, while still wet, can be cleaned up with warm soapy water.

WASTE DISPOSAL

Use only approved disposal methods in accordance with all federal, provincial, and local waste disposal regulations. Do not reuse container. Do not flush unused contents or residue down drains. Consult with local municipal officials, or provincial Ministry of the Environment office nearest to your location, for approved disposal methods.

HANDLING PROCEDURES AND EQUIPMENT

Handle this material like a combustible mixture. Use proper protective equipment. Close container after each use.

STORAGE REQUIREMENTS

Store in a suitable area for combustible mixtures. Recommended storage temperature is below 32°C (90 ^{O}F).

SPECIAL SHIPPING INFORMATION

Ensure that all containers have appropriate lids and that they are securely closed. Transportation of Dangerous Goods (TDG) Act classification: Not regulated as dangerous goods.

SECTION VIII - FIRST AID MEASURES

Inhalation: If exposed to excessive concentrations of vapours, remove to fresh air. Seek medical attention if symptoms persist.

Skin and Eyes: Flush eyes with plenty of water. Consult a physician if pain, irritation or vision problems persist after treatment. For skin contact, wash with soap and water. Refer to physician if irritation persists.

Ingestion: Do not induce vomiting. Immediately call Poison Control Center or physician for guidance. Never give anything by mouth if patient is unconscious. Obtain medical attention immediately.

ADDITIONAL INFORMATION

The information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all - inclusive. The manner and conditions of use and handling may involve other and additional considerations. 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.

No warranty of any kind is given or implied. W.W. Henry Company will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein. This Material Safety Data Sheet is valid for three (3) years.

SECTION IX - PREPARATION DATE OF M.S.D.S.

PREPARED BY:	TELEPHONE NUMBER	DATE
Environment, Health and Safety	(724) 203-8499	October 9, 2002

ADDITIONAL NOTES OR REFERENCES:

Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists
ASTM = American Society for Testing and Materials
CNS = Central Nervous System
CPR = Controlled Product Regulations, Hazardous Product Act
IARC = International Agency for Research on Cancer
MSHA = Mine Safety and Health Administration
NIOSH = National Institute of Safety and Health
TLV = Threshold Limit Values
TWA = Time Weighted Average

References:

1. Material Safety Data Sheets from raw materials' suppliers
2. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2002
3. CHEMINFO MSDS CD, Canadian Center for Occupational Health and Safety, 2002