


SECTION 1 - PRODUCT IDENTIFICATION		
Manufacturer/Supplier identifier:  The W.W. Henry Company 400 Ardex Park Drive Aliquippa, PA 15001 U.S.A. Tel: (724) 203-8499		MATERIAL SAFETY DATA SHEET Use in case of emergency only: CHEM-TEL – 1-800-255-3924 OR 1-813-248-0585 (call collect) Visit our Website: http://www.wwhenry.com
Product identifier/Trade name: <i>Henry 972 Urethane Adhesive Remover</i>		HMIS Hazard Index: HEALTH = *2 FLAMMABILITY = 2 REACTIVITY = 0 4 = Severe 3 = Serious 2 = Moderate 1 = Slight 0 = Minimal * = Chronic hazard WHMIS Classification: B3 – Combustible liquids; D2B – Toxic material with other toxic effects
CHEMICAL NAME Not Applicable	CHEMICAL FAMILY Not available.	CHEMICAL FORMULA Not Applicable
TRADE NAME AND SYNONYMS Henry® 972	MOLECULAR WEIGHT Not Applicable	MATERIAL USE Solvent based adhesive remover.

SECTION 2 - CHEMICAL COMPOSITION / HAZARDOUS INGREDIENTS						
Hazardous Ingredients	C.A.S. Numbers	% (weight)	OSHA PEL		ACGIH TLV	
			TWA	STEL	TWA	STEL
Dipropylene glycol methyl ether	34590-94-8	15 - 40	100 ppm (skin)	N/Av	100 ppm (skin)	150 ppm
Propylene glycol n-butyl ether	5131-66-8	15 - 40	N/Av	N/Av	N/Av	N/Av
d-Limonene	5989-27-5	15 - 40	N/Av	N/Av	30 ppm (AIHA WEEL)	N/Av
This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).						

SECTION 3 - HAZARDS IDENTIFICATION
Emergency Overview Clear or colorless liquid, with a citrus odor. Combustible liquid and vapor. Material will catch fire when exposed to heat, flame and other sources of ignition. May be harmful if absorbed through the skin or swallowed. May cause allergic skin reaction. May cause moderate respiratory tract, skin and eye irritation. May cause headache, nausea or other effects to the central nervous system. Contains material which may cause liver and kidney effects.
POTENTIAL HEALTH EFFECTS: Primary entry route(s): Skin, skin absorption, eyes, ingestion and inhalation.
Target organs: Eyes, skin, respiratory system, central nervous system, digestive system.
Effects of short-term (acute) exposure: Inhalation: Inhalation may cause marked eye and respiratory irritation. Symptoms may include headache, nausea, dizziness, drowsiness and other symptoms of central nervous system depression. Skin: Direct skin contact may cause mild to moderate irritation. Product may be absorbed and cause symptoms central nervous system depression. Eye: Direct eye contact may cause moderate irritation and possibly corneal injury. Symptoms may include stinging sensation and tearing.
Ingestion: May be harmful if swallowed. May cause irritation to the mouth, throat and stomach. Symptoms may include headache, nausea, dizziness, drowsiness and other symptoms of central nervous system depression.
Effects of long-term (chronic) exposure: Prolonged or repeated inhalation or ingestion may have effects on the liver and kidneys. Prolonged or repeated skin contact may cause drying and cracking of the skin (dermatitis).

SECTION 3 - HAZARDS IDENTIFICATION Continued	
Conditions aggravated by exposure: Pre-existing skin, eye, respiratory, liver and kidney disorders.	Carcinogenic status: See TOXICOLOGICAL INFORMATION, Section 11.
Additional health hazards: Skin sensitizer! For further information, see TOXICOLOGICAL INFORMATION, Section 11.	Potential environmental effects: See ECOLOGICAL INFORMATION (Section 12).

SECTION 4 - FIRST AID MEASURES
Inhalation: If inhaled, immediately remove victim to fresh air. Obtain medical attention.
Skin contact: Immediately flush skin with plenty of running water for at least 15 minutes, while removing contaminated clothing. Obtain medical attention.
Eye contact: Immediately flush eyes thoroughly with running water for at least 15 minutes. Obtain medical attention.
Ingestion: If ingested, DO NOT induce vomiting. Never give anything by mouth if patient is unconscious. Seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES		
Fire hazards/conditions of flammability: Combustible liquid and vapor. This material may be ignited by heat, flame and other sources of ignition. Vapors are heavier than air and will collect in confined and low-lying areas. The vapors may travel considerable distances. Closed containers may rupture if exposed to excess heat or flame, due to a build-up of internal pressure.		
Flammability classification (OSHA 29 CFR 1910.1200): Class IIIA Combustible Liquid.		
Flash point (Method): 59°C / 138°F (Closed Cup)	Lower flammable limit (% by volume): 0.6	Upper flammable limit (% by volume): 14
Auto-ignition temperature: N/Av	Hazardous combustion products: Carbon monoxide, carbon dioxide and other toxic vapors and gases that are common to thermal degradation of organic compounds.	
Sensitivity to mechanical impact: N/Av	Sensitivity to static discharge: May be sensitive to static discharge.	
Suitable extinguishing media: Carbon dioxide, dry chemical powder, appropriate foam and water fog.		
Special fire-fighting procedures/equipment: Firefighters should wear proper chemically protective equipment and self-contained breathing apparatus. Move containers from fire area if it can be done without risk. Use water to cool fire exposed containers. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.		

SECTION 6 - ACCIDENTAL RELEASE MEASURES
Personal precautions: Wear personal protective equipment during cleanup. Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate protective equipment, especially where exposure to vapor, dust or fume is possible. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
Spill response/Cleanup: Ventilate area of spill or release. Eliminate all sources of ignition. Contain material, preventing it from entering sewer lines or waterways. Use inert, non-combustible absorbents to absorb any spilled material, then place into a container for disposal. Use non-sparking tools. Clean spill area contaminated with residual material, while still wet, with warm soapy water. Contaminated absorbent material may pose the same hazards as the product. Notify the appropriate authorities as required.
Environmental precautions: Do not allow material to be discharged into the atmosphere or into sewers or ground water.
Special spill response procedures: If a spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002). DOT/CERCLA Reportable quantity (RQ): None to report.

SECTION 7 - HANDLING AND STORAGE**Safe handling procedures:**

COMBUSTIBLE AND HARMFUL MATERIAL. Wear suitable chemically protective equipment. Use only in well-ventilated area. Training the workers on the potential health hazards associated with product vapor or fume is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Avoid breathing fumes or mists. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Ground equipment during handling. Keep away from oxidizing agents. Keep container tightly closed when not in use. Wash thoroughly after handling.

Storage requirements:

Store in a cool (temperature below 32.2°C / 90°F), dry, well-ventilated area. No smoking in the area. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Protect from damage.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**Engineering controls:**

Use with natural cross-ventilation, local exhaust ventilation and/or general area (mechanical) ventilation to meet TLV requirements. Ventilation pattern must remove the heavier-than-air solvent vapors from the lower levels of the work spaces.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Respiratory protection is required if the airborne concentration exceeds the TLV. NIOSH / MSHA - approved respirators, approved for organic vapors, are recommended.

Skin protection and other protective equipment: Impervious gloves appropriate to the material, are required. Advice should be sought from glove suppliers. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. An eyewash fountain and safety shower must be made available in the immediate working area.

Eye / face protection: Wear protective chemical safety goggles.

Permissible exposure levels:

For individual ingredient exposure levels, see Section 2.

General Hygiene Considerations:

Avoid contact with eyes, skin and clothing. Do not breathe fumes or mists. Never eat, drink, or smoke in work areas. Clean all equipment and clothing at end of each work shift.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid		Odor and appearance: Clear or colorless liquid, with a citrus odor.	
Odor threshold: N/Av	Specific gravity (water = 1): 0.88 – 0.90	Vapor pressure: 1 mmHg @ 20°C	Vapor density (Air=1): 4.1
Evaporation rate: 1.0 (n-Butyl acetate = 1)	Boiling point: 176.7°C (350°F)	Melting/freezing point: N/Av	Solubility in water: Soluble.
% volatile by volume: N/Av	pH: N/Av	Coefficient of oil/water distribution: N/Av	Particle size: N/Av
% volatile by weight (30 min. @ 135°C/235°F): N/Av	Weight/Gallon: 7.4 lbs (water = 8.3 lbs)	Volatile Organic Content (VOC): N/Av	

SECTION 10 – REACTIVITY AND STABILITY DATA**Stability and reactivity:**

Stable under the recommended storage and handling conditions prescribed.

Polymerization:

Hazardous polymerization will not occur.

Conditions to avoid:

Temperatures above 32.2°C / 90°F.

Materials to avoid:

Strong oxidizing agents.

Hazardous decomposition products:

None known. Refer to 'Hazardous combustion products', Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION		
Toxicological data: There is no available data for the product itself. See below for individual ingredient acute toxicity data.		
<u>Ingredients:</u>	<u>LD₅₀ (route, species):</u>	<u>LC₅₀ (species):</u>
Dipropylene glycol methyl ether	5180 mg/kg (oral, rat); 9500 mg/kg (dermal, rabbit)	Not available.
Propylene glycol n-butyl ether	1900 mg/kg (oral, rat); 1400 – 3100 mg/kg (dermal, rabbit)	Not available.
d-Limonene	4400 mg/kg (oral, rat); >5000 mg/kg (dermal, rabbit)	Not available.
Carcinogenicity: No ingredient classified as carcinogenic to humans by IARC, NTP, OSHA or ACGIH.		
Teratogenicity, mutagenicity, other reproductive effects: None known.		
Sensitization to material: Skin sensitizer. May cause allergic skin response.	Synergistic materials: N/Av	
Irritancy of material: Moderate degree of irritation.		
For more details, refer to Section 3.		

SECTION 12 - ECOLOGICAL INFORMATION
Environmental effects: The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. Do not discharge product unmonitored into the environment.
Important environmental characteristics: N/Av
Aquatic toxicity: N/Av

SECTION 13 - WASTE DISPOSAL
Handling and storage conditions for disposal: Handle according to recommendations listed in Section 7.
Methods of disposal: Dispose of in sealed containers in accordance with all applicable government regulations. Dispose in accordance with all applicable federal, provincial, state and local regulations. Contact your local, state or federal environmental agency for specific rules.
RCRA: If this product, as supplied, becomes a waste, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. Waste classification should be determined by the end user of the product. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 - TRANSPORTATION INFORMATION
Transportation of Dangerous Goods (TDG) Information: This product is regulated for transport by ground, according Canadian Regulations.
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (d-Limonene)
Class: 3
Identification number: UN1993
Packing group: III
Special case: Product may also be shipped as a LIMITED QUANTITY/CONSUMER COMMODITY according to TDG Section 1.17 if each inner container does not exceed the maximum quantity of Column 6 in Schedule 1.
US DOT 49 CFR information: This product is regulated for transport by ground according to US Regulations.
Proper shipping name: Flammable liquids, n.o.s. (d-Limonene)
Class: 3
Identification number: UN1993
Packing group: III
Special case: Product may also be shipped as an ORM-D/CONSUMER COMMODITY according to 49 CFR Part 172.101 Column 8A.

SECTION 15 - REGULATORY INFORMATION		
In Canada:		
WHMIS information:		
This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR). Refer to Section 1 for a WHMIS Classification for this product.		
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.		
CEPA information:		
All ingredients are listed on the DSL.		
In U.S.A.:		
TSCA information:		
All ingredients are listed on the TSCA inventory.		
DOT/CERCLA Reportable Quantity (RQ):	None Reportable	
SARA TITLE III:		
Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to the TSCA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.		
California Proposition 65:		
This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.		
New Jersey Hazardous Substance Lists:		
This product contains the following substances required to be disclosed on product labelling:		
	<u>Chemical Name</u>	<u>CAS #</u>
	<u>New Jersey Hazardous Substance</u>	
	Dipropylene glycol methyl ether	34590-94-8
	Propylene glycol n-butyl ether	5131-66-8
	d-Limonene	5989-27-5
		Yes
		No
		No

SECTION 16 - OTHER INFORMATION		
Prepared by: The W.W. Henry Company	Telephone number: (724) 203-8499	Preparation date: May 27, 2005
References:		
<ol style="list-style-type: none"> 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2004. 2. International Agency for Research on Cancer Monographs, searched May 2005. 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, searched May 2005 (Chempendium and RTECs). 4. Material Safety Data Sheet from manufacturer. 5. US EPA Title III List of Lists – January 27, 2005 version. 6. California Proposition 65 List – March 4, 2005 version. 		
Abbreviations:		
ACGIH = American Conference of Governmental Industrial Hygienists		
AIHA = American Industrial Hygiene Association		
CAS = Chemical Abstract Service		
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980		
CFR = Code of Federal Regulations (U.S.A.)		
DOT = Department of Transport (U.S.A.)		
DSL = Domestic Substance List		
EPA = Environmental Protection Agency (U.S.A.)		
IARC = International Agency for Research on Cancer		
N/Av = Not available.		
N/Ap = Not applicable		
NIOSH = National Institute for Occupational Safety and Health		
NTP = National Toxicology Program (U.S.A.)		
OSHA = Occupational Safety and Health Administration (U.S.A.)		
PEL = Permissible Exposure Limit		
RCRA = Resource Conservation and Recovery Act		
SARA = Superfund Amendments & Reauthorization Act		
STEL = Short-term Exposure Limit		
TLV = Threshold Limit Value		
TSCA = Toxic Substances Control Act		
TWA = Time Weighted Average		
WEEL = Workplace Environmental Exposure Level		
WHMIS = Workplace Hazardous Materials Information System		

SECTION 16 - OTHER INFORMATION Continued

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.

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