

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's name and address:



The W.W. Henry Company

400 Ardex Park Drive
Aliquippa, PA, U.S.A.
15001

Information Telephone No. : (724) 203-8499
Visit our Website: <http://www.wwhenry.com>

24 Hr. Emergency Tel # : CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)

Product Identifier : **HENRY 452 EpoxyPro Part B**

Chemical Name	: N/Ap	Chemical Family	: Mixture.
Chemical Formula	: N/Ap	Trade Name/Synonyms	: Henry® 452 Part B
Molecular Weight	: N/Ap	Material Use	: General purpose, two-part epoxy flooring adhesive.

WHMIS Classification : Class D1B (Materials Causing Immediate and Serious Toxic Effects, Toxic Material);
Class D2B (Materials Causing Other Toxic Effects, Toxic Material);
Class E (Corrosive Material)

HMIS Rating : * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: *2 Flammability: 1 Reactivity: 1

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (weight)	ACGIH TLV		OSHA PEL	
			TWA	STEL	PEL	STEL
Polyamide resin	68410-23-1	60.00 - 100.00	N/Av	N/Av	N/Av	N/Av
Talc	14807-96-6	5.00 - 10.00	2 mg/m ³ (respirable)	N/Av	20 mppcf	N/Av
Silica, amorphous fumed	112945-52-5	1.00 - 5.00	10 mg/m ³ (inhalable); 3 mg/m ³ (respirable) (as PNOS)	N/Av	20 mppcf (as Amorphous silica)	N/Av
Triethylenetetramine	112-24-3	10.00 - 30.00	1 ppm (skin) (AIHA WEEL)	N/Av	N/Av	N/Av

Note: This product does NOT contain asbestos.

This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Brown paste. Ammonia odour.

Danger!

Polymerization occurs when components are mixed. Potential for exothermic hazard. Prolonged contact may cause corrosive burns and eye damage. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Harmful or fatal if absorbed through the skin.

May cause skin sensitization.

If dusts are formed, prolonged inhalation may result in chronic respiratory disease.

*****POTENTIAL HEALTH EFFECTS*****

Target organs : Eyes, skin, respiratory system and digestive system.

Routes of exposure : Inhalation: YES Skin Absorption: NO Skin & Eyes: YES Ingestion: YES

Signs and symptoms of short-term (acute) exposure

- Inhalation* : May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include sore throat, running nose and shortness of breath.
- Skin* : May cause moderate to severe skin irritation. Symptoms may include redness, itching and swelling. Prolonged contact may produce chemical burns to affected skin areas.
- Eyes* : Direct contact may strongly irritate or burn the eyes. Contact may cause redness, swelling and a painful sensation. Exposure to low vapour concentrations may cause swelling (edema) of the eyes, resulting in blurring of vision with a bluish haze and/or appearance of halos around lights.
- Ingestion* : May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, nausea, vomiting, diarrhea and collapse.

Effects of long-term (chronic) exposure

- : Prolonged or repeated contact may cause drying, cracking and defatting of the skin. If dusts are formed, prolonged inhalation may result in chronic respiratory disease.

Conditions aggravated by overexposure

- : Pre-existing skin, eye and respiratory disorders.

Carcinogenic status

- : See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards

- : Possible sensitizer. See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects

- : See ECOLOGICAL INFORMATION (Section 12).

SECTION 4 - FIRST AID MEASURES

- Inhalation** : If inhaled, move to fresh air. If irritation persists, seek prompt medical attention.
- Skin contact** : Remove contaminated clothing. Wash off with soap and plenty of water. Seek immediate medical attention/advice.
- Eye contact** : Immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention/advice.
- Ingestion** : Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Seek immediate medical attention/advice.
- Notes For Physician** : Treat symptomatically. Prompt medical attention is important.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

- : Not flammable under normal conditions of use. 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)

- : Non-flammable.

Flash point

- : > 171.1°C / 340°F

Flash point Method

- : N/Av

Auto-ignition temperature : N/Av

Lower flammable limit (% by vol.)

- : N/Av

Upper flammable limit (% by vol.) : N/Av

Oxidizing properties

- : None.

Flame Projection Length

- : Not applicable.

Flashback observed : Not applicable.

Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media

- : Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.

Special fire-fighting procedures/equipment

- : Firefighters should wear proper protective equipment and self contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.

Hazardous combustion products

- : Carbon oxides; Ammonia; nitrogen oxides (NOx); hydrogen cyanide ; Aldehydes; Ketones; other unidentified organic compounds.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions

- : Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment. Refer to point 8 on this Safety Data Sheet, EXPOSURE CONTROLS / PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions

- : Do not allow product to enter waterways. Do not allow material to contaminate ground water system.

- Spill response/cleanup** : Ventilate area of release. Eliminate all ignition sources. Stop spill or leak at source if safely possible. Contain material, preventing it from entering sewer lines or waterways. Use inert, non-combustible absorbents to assist the pick up of material. Scrape up product and place it into a container for disposal. Refer to Section 13 for disposal of contaminated material. Notify the appropriate authorities as required.
- Prohibited materials** : None known.
- Special spill response procedures** : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).
US CERCLA Reportable quantity (RQ): None reported.

SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted. Wear suitable protective equipment during handling. Use with adequate ventilation. Training the workers on the potential health hazards associated with product vapor, dust or fume is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Keep away from oxidizing materials. Keep containers tightly closed when not in use. Wash thoroughly after handling.
- Storage requirements** : Store in a cool, dry, well-ventilated area. No smoking in the area. Do not store near any incompatible materials (see Section 10). Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Protect against physical damage.
- Incompatible materials** : See Section 10.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Ventilation and engineering measures** : Use with adequate ventilation. Provide adequate cross air circulation. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
- Respiratory protection** : In case of insufficient ventilation wear suitable respiratory equipment. NIOSH-approved, organic vapour cartridge respirators are recommended. Advice should be sought from respiratory protection specialists.
- Skin protection** : Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.
- Eye / face protection** : Chemical splash goggles are recommended.
- Other protective equipment** : Wear sufficient clothing to prevent skin contact. An eyewash station and safety shower should be made available in the immediate working area.
- General hygiene considerations** : Avoid contact with eyes, skin and clothing. Avoid breathing vapors, fumes or dust. Do not eat, drink or smoke when using this product. Clean all equipment and clothing at end of each work shift. Separate contaminated work clothes from street clothes. Contaminated work clothing should not be allowed out of the workplace.
- Permissible exposure levels** : For individual ingredient exposure levels, see Section 2.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|---|-----------|---|-------------|
| Physical state | : paste | Appearance | : brown |
| Odour | : Ammonia | Odour threshold | : N/Av |
| pH | : N/Av | | |
| Boiling point | : N/Av | Specific gravity | : 1.02 |
| Melting/Freezing point | : N/Av | Coefficient of water/oil distribution | : N/Av |
| Vapour pressure (mmHg @ 20° C / 68° F) | : N/Av | Solubility in water | : insoluble |
| Vapour density (Air = 1) | : N/Av | Evaporation rate (n-Butyl acetate = 1) | : N/Av |
| Volatile organic Compounds (VOC's) | | Volatiles (% by weight) | : 94% |

Particle size : < 10 g/L
 : N/Av
General Info. : Weight / Gallon: 8.07 lbs. / 3.66 kg (water = 8.3 lbs / 3.76 kg)

SECTION 10 - REACTIVITY AND STABILITY DATA

Stability and reactivity : Stable under the recommended storage and handling conditions prescribed. Excessive heating above 50°C / 122°F may degrade the resin component. Mixing Part A and Part B may produce heat.
Hazardous polymerization : Polymerization occurs when components are mixed. Reaction is exothermic and can be hazardous depending on temperature and quantity.
Conditions to avoid : Extreme heat. Avoid contact with incompatible materials.
Materials To Avoid And Incompatibility : Oxidizing agents; Acids; Aldehydes; Ketones; Halogenated compounds; Nitrogen compounds.
Hazardous decomposition products : None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	<u>LC₅₀(4hr)</u> <u>inh. rat</u>	<u>LD₅₀</u>	
		<u>oral</u>	<u>dermal</u>
Polyamide resin	N/Av	N/Av	N/Av
Talc	N/Av	N/Av	N/Av
Silica, amorphous fumed	N/Av	3160 mg/kg (rat)	N/Av
Triethylenetetramine	N/Av	2500 mg/kg (rat); 1600 mg/kg (mouse)	805 mg/kg (rabbit)

Carcinogenic status : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive effects : None known.
Teratogenicity : None known.
Mutagenicity : None known.
Epidemiology : Not available.
Sensitization to material : May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema. May cause an allergic respiratory reaction (e.g. asthma) in some hypersensitive individuals.
Synergistic materials : N/Av
Irritancy : Moderate to severe irritation. Prolonged exposure: Corrosive.
other important hazards : See Section 3 for additional information.

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. No data is available on the product itself.
Important environmental characteristics : N/Av
Ecotoxicological : No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle waste according to recommendations in Section 7.
Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 - TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	Not regulated.	not regulated	none	
TDG Additional information	None.				
49CFR/DOT	None	Not regulated.	not regulated	none	
49CFR/DOT Additional information	None.				

SECTION 15 - REGULATORY INFORMATION

Canadian Information:

Canadian WHMIS Classification: *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 according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Canadian Environmental Protection Act (CEPA): *All components of this product are on the Canadian DSL list.*

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

US State Right to Know Laws:

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

SECTION 16 - OTHER INFORMATION

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- DSL: Domestic Substances List
- EPA: Environmental Protection Agency
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- N/Av: not available
- N/Ap: not applicable
- NIOSH: National Institute of Occupational Safety and Health
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- RCRA: Resource Conservation and Recovery Act
- SARA: Superfund Amendments & Reauthorization Act
- STEL: Short Term Exposure Limit

TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2008.
2. International Agency for Research on Cancer Monographs, searched 2008.
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2008 (Chempendium and RTECs).
4. Material Safety Data Sheet from manufacturer.
5. US EPA Title III List of Lists October 2006 version.
6. California Proposition 65 List September 12, 2008 version.

DISCLAIMER OF LIABILITY

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. The 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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Visit our Website: <http://www.wwhenry.com>

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: 16/10/2008

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