



MATERIAL SAFETY DATA SHEET

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RT204513 - PERMAX 2.0 R - B COMPONENT

1. Product And Company Identification	
Supplier HENRY COMPANY 2270 Castle Harbor Place Ontario, CA 91761 Company Contact: R&D Dept. Telephone Number: (909) 947-7224 Web Site: www.resintechnology.com	Manufacturer HENRY COMPANY 2270 Castle Harbor Place Ontario, CA 91761 Company Contact: R&D Dept. Telephone Number: (909) 947-7224 Web Site: www.resintechnology.com
Supplier Emergency Contacts & Phone Number CHEMTREC: (800) 424-9300	Manufacturer Emergency Contacts & Phone Number CHEMTREC: (800) 424-9300
Issue Date: 03/08/2010 Product Name: RT204513 - PERMAX 2.0 R - B COMPONENT Product Code: RT204513 Product/Material Uses Polyurethane Foam Resin	

2. Composition/Information On Ingredients			
Ingredient Name	CAS Number		Percent Of Total Weight
hydrofluorocarbons	460-73-1		5 - 15
aromatic diamine	68479-98-1		1 - 5
dimethylcyclohexylamine	98-94-2		1 - 5
brominated polyalcohol	77098-07-8		5 - 15
polyol blend	Not Availabl		55 - 75
chlorinated phosphate ester	13674-84-5		5 - 15
dimethylaminomethyl phenol	90-72-2		1 - 5

EMERGENCY OVERVIEW	
WARNING! May cause severe eye and skin irritation. Contact with skin may cause allergic skin reaction. May cause respiratory tract sensitization.	
Appearance/Odor: Amber colored liquid with a slight aromatic odor	

3. Hazards Identification
Primary Routes(s) Of Entry Skin & Eye Contact, Inhalation.
Eye Hazards May cause eye irritation. Irritation may be severe, causing burns and leading to permanent eye damage.
Skin Hazards May cause skin irritation. Irritation may be severe resulting in burns to the skin from prolonged contact. May cause allergic skin reaction.



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3. Hazards Identification - Continued

Ingestion Hazards

Harmful if swallowed. Ingestion may cause: corrosive lesions of the mouth, throat and esophagus, gastrointestinal upset, nausea and vomiting, abdominal pain, central nervous system depression and neurological disorders. Ingestion may result in injury to the liver and kidneys.

Inhalation Hazards

Inhalation of vapors or mists may cause irritation of the nose and throat. Symptoms of respiratory tract irritation include sore throat, coughing, wheezing, and shortness of breath. Severe cases can result in pulmonary edema and even death. May cause respiratory tract sensitization.

Chronic/Carcinogenicity Effects

None of the ingredients of this product comprising over 0.1% are classified as carcinogenic according to OSHA, National Toxicology Program (NTP), International Agency for Research on Cancer (IARC) or the American Conference of Governmental Industrial Hygienists (ACGIH).

4. First Aid Measures

Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately. Remove contact lenses, if worn.

Skin

Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention immediately.

Ingestion

Call a physician or a poison control center immediately.

Inhalation

Remove the person from the contaminated area to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

5. Fire Fighting Measures

Flash Point: 269 °F

Flash Point Method: closed cup

Lower Explosive Limit: 7.1%

Upper Explosive Limit: 17.7%

Fire And Explosion Hazards

Thermal decomposition (burning) may release irritating, corrosive and/or toxic gases, vapors and fumes. Closed containers may explode when heated due to increased pressure. Do not puncture, cut open or reuse empty containers.

Extinguishing Media

Use the appropriate extinguishing media for the surrounding fire. Water spray or fog, carbon dioxide (CO₂), dry chemical, alcohol foam.

Fire Fighting Instructions

Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Eliminate all ignition sources. Use appropriate personal protective equipment (PPE). Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Collect and dispose. Avoid runoff to waterways and sewers.



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7. Handling And Storage

Handling And Storage Precautions

Keep containers tightly closed. Store in a cool, dry, well-ventilated area. Protect from physical damage. Use only with adequate ventilation. Wash thoroughly after handling. Empty containers may contain hazardous residue, do not reuse. Open containers slowly to allow any pressure build-up to vent safely. Do not open or spray near eyes and face.

8. Exposure Controls/Personal Protection

Engineering Controls

Use with adequate ventilation. When used outdoors, stay well away from building air intakes or close the intakes to prevent product from entering building.

Eye/Face Protection

Safety glasses with side shields or goggles recommended.

Skin Protection

Use with chemical-protective gloves to prevent excessive skin contact. Chemical-resistant gloves made of rubber can be used.

Respiratory Protection

The level of respiratory protection needed should be based on the evaluation of chemical exposures by a health or safety professional. If required, use a NIOSH-approved air purifying respirator with organic vapor cartridge or supplied air respirator.

Occupational Exposure Limits for individual ingredients (if available) are listed below.

9. Physical And Chemical Properties

Appearance

Amber colored liquid

Odor

Low, slight aromatic

Chemical Type: Mixture

Physical State: Liquid

Boiling Point: not available °F

Specific Gravity: 1.2 at 70°F

Vapor Pressure: not available

pH Factor: 7-10

Solubility: moderate in water

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatible Materials

Avoid contact with strong oxidizing agents, acids.

Hazardous Decomposition Products

Toxic and irritating gases, vapors or fumes of: carbon monoxide (CO), carbon dioxide (CO₂), oxides of nitrogen, hydrogen fluoride, aldehydes, ketones



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11. Toxicological Information

Miscellaneous Toxicological Information

Toxicological testing has not been conducted for this product overall. Available toxicological data for individual ingredients are summarized below.

Ingredient(s) - Toxicological Data

aromatic diamine

oral-rat LD50: 542 mg/kg

chlorinated phosphate ester

oral-rat LD50: 2800 mg/kg

inhal-rat LC50: 4.6 mg/L / 4H

dimethylaminomethyl phenol

LD50 (ORAL-RAT): 1670 mg/kg

LD50 (DERMAL-RABBIT): 1242 mg/kg

12. Ecological Information

No specific information available.

13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations. Avoid/prevent release to the environment.

14. Transport Information

US Not Restricted

Canada Not Restricted

IATA Not Restricted

IMDG Not Restricted

15. Regulatory Information

U.S. Regulatory Information

Warning: Contains a substance known to the State of California to cause cancer, birth defects or other reproductive harm.

SARA Hazard Classes

Acute Health Hazard

Ingredient(s) - State Regulations

dimethylcyclohexylamine

New Jersey - Workplace Hazard

New Jersey - Special Hazard

New York City - Hazardous Substance

Canadian Regulatory Information

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. WHMIS Classification: D2B - Toxic



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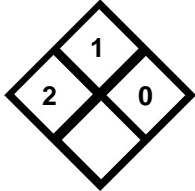
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WHMIS - Canada (Pictograms)



NFPA



HMIS

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	

16. Other Information

Revision/Preparer Information

This MSDS Supersedes A Previous MSDS Dated: 03/08/2010

Disclaimer

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HENRY COMPANY