



D.S. Brown Company - PAVESAVER™ PART B

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

The D. S. Brown Company
300 E. Cherry Street
North Baltimore, Ohio 45872
419-257-3561

24-Hour Emergency Phone: Chemtrec 1-800-424-9300

Effective Date: 3/7/2005

Trade Name: PaveSaver™ Part B

Chemical Family: Formulated Polyether/Polyamine

Intended Use or Product Type: Liquid Epoxy Hardener

Health	3
Flammability	1
Reactivity	0
Personal Protection	X

2. COMPOSITION/INGREDIENTS

O S H A	CAS Number	CHEMICAL IDENTITY	EXPOSURE LIMITS				CARCINOGEN STATUS			
			ACGIH		OSHA		MFR	IARC	NTP	OSHA
			TWA	STEL	PEL	STEL				
*	Confidential	Amine	NE	NE	NE	NE	NE	NR	NR	NR
*	25154-52-3	Phenol, nonyl-	NE	NE	NE	NE	NE	NR	NR	NR
*	25620-58-0	1,6-Hexanediamine, trimethyl- Trimethylhexamethylenekiamine	NE	NE	NE	NE	NE	NR	NR	NR
*	61788-46-3	Amines, coco alkyl Tetradecylamine	NE	NE	NE	NE	NE	NR	NR	NR
*	90-72-2	Phenol, 2,4,6-tris[(dimethylamino)methyl]- Common Name: 2,4,6-Tris(Dimethylaminomethyl) Phenol	NE	NE	NE	NE	TLV 5ppm	NR	NR	NR
*	108-95-2	Phenol	5ppm	NE	5ppm	NE	NE	NR	NR	NR

NE=Not Established NR=Not Reviewed *=OSHA Hazardous Ingredient

3. HAZARDS IDENTIFICATION

Emergency Overview: Danger! Corrosive to eyes and skin. Harmful if swallowed, inhaled or absorbed through the skin. Can cause sensitization and dermatitis, and have effects on the central nervous system, liver and kidneys.

Primary Route(s) of Entry: Dermal, inhalation.

4. FIRST AID

Ingestion: If swallowed, immediately give at least 3-4 glasses of water, but do not induce vomiting. If vomiting occurs, give fluids again. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention. Have physician determine whether vomiting or stomach evacuation is necessary.



D.S. Brown Company - PAVESAVER™ PART B

Skin: For skin contact, under a safety shower, immediately remove contaminated clothing and shoes. Wash affected areas thoroughly with large amounts of water, and soap if available, for at least 15 minutes. Get immediate medical attention. Discard or decontaminate clothing before reuse and destroy contaminated shoes.

Inhalation: If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen.

Eyes: For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If physician is not available, flush for an additional 15 minutes. Get immediate medical attention.

Overexposure Effects: Overexposure to this material can cause chemical burns to the skin and the eyes, and may result in blindness. Can cause allergic skin and respiratory reactions. Vapors may be severely irritating to the respiratory tract. Considered to be a dermal toxicant. May have effects on the central nervous system, liver and kidneys.

Medical Conditions Aggravated by Exposure: Allergy, eczema or skin conditions.

Additional Information: Promptly remove wet contaminated non-impervious clothing, wash before reuse. Destroy contaminated leather and absorbent shoes.

5. FIRE FIGHTING MEASURES

Flash Point: >93°C (>200°F)

Fire Fighting Extinguishing Media: Carbon dioxide, foam, dry chemical, water spray.

Fire Fighting Equipment: Use self-contained breathing apparatus.

Fire and Explosion Hazards: Decomposition and combustion products may be toxic.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Avoid all personal contact. Take up with absorbent material. Shovel into closable containers. Flush contaminated area with water.

7. HANDLING AND STORAGE

Precautions: Do not get in eyes, on skin, on clothing. Do not breathe vapor, mist or spray. Wear chemical goggles. Wear impervious gloves. Use with adequate ventilation. Individuals should wash thoroughly after handling. For industrial use only.

Storage Information: Store in sealed containers in dry area to prevent moisture and carbon dioxide contamination. Keep containers closed.

D.S. Brown Company - PAVESAVER™ PART B

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment: Wear protective equipment to prevent exposure and personal contact.

Skin Protection: Wear impervious gloves.

Respiratory Protection: Organic chemical cartridge respirator, if needed.

Eye Protection: Splash-proof chemical goggles. Full face-shield recommended.

Engineering Controls: Good general mechanical ventilation. Local exhaust recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color: yellow/amber

Odor: amine

Physical State: liquid

Solubility in Water: partly soluble @20°C (68°F)

Specific Gravity: 0.97 g/cm³ @20°C (68°F)

pH: ~11

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: Strong oxidizers and acids

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides

Hazardous Polymerization: Will not occur. Considerable exothermic reaction with epoxy resins is possible.

11. TOXICOLOGICAL INFORMATION

Sensitization: May cause skin and respiratory sensitization.

Skin Irritation: Corrosive

Eye Irritation: Corrosive

12. ECOLOGICAL INFORMATION

Additional Information: No ecological information available.



D.S. Brown Company - PAVESAVER™ PART B

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT:

Proper Shipping Name	Polyamines, liquid, corrosive, n.o.s.
Technical Shipping Name (If n.o.s.)	(Trimethylhexamethylenediamine, Tetradecylamine)
Hazard Class	8
ID Number	UN 2735
Packing Group	III

Additional Information: This product contains a marine pollutant (nonylphenol)

15. REGULATORY INFORMATION

US Federal Regulations

Occupational Safety and Health Administration (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard, 29 CFR 1910.1200. This product is considered to be a hazardous chemical under the standard.

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261) as supplied.

SARA Title III: Section 304 – CERCLA: RQ 7000 lbs (U188)

SARA Title III Section 313 Toxic Chemical List (TCL): This product is (or contains) a toxic chemical for routine annual Toxic Chemical Release Reporting under Sec 313 (40 CFR 372). This information must be included in all MSDSs that are copied and distributed for this material.

CAS Number: 108-95-2
Chemical Name: Phenol
Concentration: 2.9%

TSCA Section 8(b) – Inventory Status: Chemical components listed on TSCA Inventory.

TSCA Section 12(b) – Export Notification: This product contains chemicals that are regulated by TSCA 12(b) regulation and it is required that proper export notification shall be provided prior to shipping out of the United States of America.

Chemical Name: 4-Nonylphenol, branched
CAS Number: 84852-15-3



D.S. Brown Company - PAVESAVER™ PART B

State Regulations

New Jersey Right-to-Know: The following is required composition information:

CAS Number: 90-72-2

Chemical Name: Phenol, 2,4,6-tris[(dimethylamino)methyl]-

Generic Name: Modified Amine

NJ Registry Number: 29943300001-5707P

CAS Number: 108-95-2

Chemical Name: Phenol

CAS Number: 25620-58-0

Chemical Name: Trimethylhexamethylenediamine

Pennsylvania Right-to-Know: The following is required composition information:

CAS Number: 108-95-2

Chemical Name: Phenol

Comment: Environmental Hazard

CAS Number: Confidential

Generic Name: Modified Amine

Comment: Not on Pennsylvania Hazardous Substance List

CAS Number: 90-72-2

Chemical Name: Phenol, 2,6-tris[(dimethylamino)methyl]-

Comment: Not on Pennsylvania Hazardous Substance List

CAS Number: 61788-46-3

Chemical Name: Amines, coco alkyl

Common Name: Tetradecylamine

Comment: Not on Pennsylvania Hazardous Substance List

CAS Number: Confidential

Generic Name: Polyether/Polyamine

Comment: Not on Pennsylvania Hazardous Substance List

CAS Number: 25154-52-3

Chemical Name: Nonylphenol

Comment: Hazardous Substance

CAS Number: Confidential

Generic Name: Amine

Comment: Hazardous Substance

CAS Number: 25620-58-0

Chemical Name: 1,6-Hexanediamine, trimethyl-



The D.S. Brown Company
Material Safety Data Sheet

D.S. Brown Company - PAVESAVER™ PART B

Comment: Not on Pennsylvania Hazardous Substance List

Other Information: For further information, contact Product Development Personnel at 419-257-3561.

Disclaimer: SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price.