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PERMATEX, INC.

HARTFORD, CT 06106
TELEPHONE: (877) 376-2839

11/17/99

MATERIAL SAFETY DATA SHEET

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Rearview Mirror Adhesive
ADHESIVE 81844

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Rearview Mirror Adhesive		
Item No.:	ADHESIVE 81844	Part of Kit:	81844
Part No.:	11067-2		
Product Type:	Anaerobic		

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Polyurethane methacrylate resin	Proprietary	45-50
Hydroxyalkyl methacrylate	27813-02-1	30-35
Polymeric plasticizer	68332-62-7	10-15
ACRYLIC ACID*	79-10-7	3-5
CUMENE HYDROPEROXIDE*	80-15-9	1-3
Substituted silane	2530-85-0	1-3
1-Acetyl-2-phenylhydrazine	114-83-0	0.1-1
SACCHARIN	81-07-2	0.1-1

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Hydroxyalkyl methacrylate	None	None	1 ppm TWA 3 ppm STEL
ACRYLIC ACID	2 ppm TWA skin 5.9 mg/m3 skin	10 ppm TWA skin 30 mg/m3 skin	1 ppm TWA skin 3 ppm STEL skin
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	

3. HAZARDS IDENTIFICATION

Toxicity:	Severe eye irritant. Moderate skin irritant. Possible inhalation irritant. May be harmful if swallowed. May cause kidney or liver damage.
Primary Routes of Entry:	Eye, skin, inhalation, ingestion.
Signs and Symptoms of Exposure:	May cause severe dermatitis on prolonged contact in sensitive individuals.
Existing Conditions Aggravated by Exposure:	Acrylic acid: Upper respiratory and lung diseases,

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3. HAZARDS IDENTIFICATION

(continued)

dermatitis

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Polyurethane methacrylate resin	No Data	NO	NO	NO
Hydroxyalkyl methacrylate	ALG IRR	NO	NO	NO
Polymeric plasticizer	No Data	NO	NO	NO
ACRYLIC ACID	ALG COR IRR KID LIV	NO	N/A	NO
CUMENE HYDROPEROXIDE	ALG CNS COR IRR MUT	NO	NO	NO
Substituted silane	ALG IRR	NO	NO	NO
1-Acetyl-2-phenylhydrazine	ALG BLO KID MUT SOM	NO	NO	NO
SACCHARIN	NTO	YES	2B	NO

Abbreviations

N/A Not Applicable	2B Possibly carcinogenic to humans
ALG Allergen	BLO Blood
CNS Central nervous system	COR Corrosive
IRR Irritant	KID Kidney
LIV Liver	MUT Mutagen
NTO No Target Organs	SOM Evidence of some carcinogenicity

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Wash with soap and water.

Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 200øF Method: Tag Closed Cup
Recommended

Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting

Procedures: Not available

Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors

Unusual Fire or
Explosion Hazards: None

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5. FIRE FIGHTING MEASURES

(continued)

Explosive Limits:
(% by volume in air) Lower 2.0% Acrylic acid
(% by volume in air) Upper 8.0% Acrylic acid

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case
of spill or leak: Soak up in an inert absorbent. Store in a partly
filled, closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage: Store below 100°F
Handling: Avoid prolonged skin contact. Keep away from eyes.
Avoid breathing vapors.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Sufficient to maintain vapor concentration below
TLV.
Respiratory: Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellowish liquid
Odor: Sharp
Boiling Point: More than 300°F
pH: Does not apply
Solubility in Water: Slight
Specific Gravity: 1.1 at 80°F
Volatile Organic Compound
(EPA Method 24) 38.6%; 425 grams per liter
Vapor Pressure: Less than 5 mm at 80°F
Vapor Density: Not available
Evaporation Rate
(Ether = 1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur
 Incompatibility: None
 Conditions to Avoid: Not available

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10. STABILITY AND REACTIVITY

(continued)

Hazardous Decomposition
 Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

Estimated oral LD50 more than 5000 mg/kg.
 Estimated dermal LD50 more than 2000 mg/kg.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
 EPA Hazardous Waste Number: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport
 Proper Shipping Name: Unrestricted
 Hazard Class or Division: Unrestricted
 Identification Number: None
 Marine Pollutant: None

IATA

Proper Shipping Name: Unrestricted
 Class or Division: Unrestricted
 UN or ID Number: None

15. REGULATORY INFORMATION

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
 Ethylene oxide, toluene diisocyanate, toluene

This product contains Saccharin. No Prop65 hazard warning is necessary if this product is used as reasonably anticipated.

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Product Name: Rearview Mirror Adhesive
Item No.: ADHESIVE 81844

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 2
Fire Hazard: 1
Reactivity Hazard: 1
Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 2
Flammability Hazard: 1
Reactivity Hazards: 1
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

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Revision Date: January 27, 1999 Revision: 0030

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Primer for Rearview Mirror Adhesive
PRIMER 81844

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Primer for Rearview Mirror Adhesive		
Item No.:	PRIMER 81844	Part of Kit:	81844
Part No.:	11067-2		
Product Type:	Primer		

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
n-HEXANE*	110-54-3	95-100
Organo-copper compound	22221-10-9	0.1-1

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
n-HEXANE	50 ppm TWA	50 ppm TWA 180mg/M3	None
Organo-copper compound	Cu 0.2mg/m3fume Cu 1 mg/m3 dust	Cu 0.1mg/m3 Cu 1 mg/m3 dust	None
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	

3. HAZARDS IDENTIFICATION

Toxicity:	Eye, skin, inhalation, and gastrointestinal irritant. Moderately toxic by ingestion.
Primary Routes of Entry:	Inhalation, skin contact.
Signs and Symptoms of Exposure:	Coughing, chest pains, difficulty breathing, lung irritation, edema (which can be fatal),

Existing Conditions
 Aggravated by Exposure: gastrointestinal disturbances, nausea, headache, vomiting, narcosis, coma, and asphyxia.
 Central and peripheral nervous systems, vision defects, memory diminution.

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Product Name: Primer for Rearview Mirror Adhesive
 Item No.: PRIMER 81844

3. HAZARDS IDENTIFICATION

(continued)

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
n-HEXANE	DEV IRR LUN NER REP	NO	NO	NO
Organo-copper compound	NTO	NO	NO	NO

Abbreviations

DEV Developmental
 LUN Lung
 NTO No Target Organs
 IRR Irritant
 NER Nervous System
 REP Reproductive

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
 Inhalation: Remove to fresh air, apply artificial respiration if necessary, obtain medical attention.
 Skin Contact: Wash with mild soap and water.
 Eye Contact: Flush eyes with water for at least 15 minutes. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: 70°F Method: Tag Closed Cup
 Recommended
 Extinguishing Agents: Carbon dioxide, foam, dry chemical
 Special Firefighting
 Procedures: Not available
 Hazardous Products formed
 by Fire or Thermal Decomp Oxides of carbon.
 Unusual Fire or
 Explosion Hazards: Vapors may travel considerable to source of

ignition and flash back.

Explosive Limits:
 (% by volume in air) Lower 1.2%
 (% by volume in air) Upper 7.7%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case
 of spill or leak: Maintain adequate ventilation. Extinguish all
 sources of ignition. Absorb in an inert absorbent.
 Store in a metal container until disposal.

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Product Name: Primer for Rearview Mirror Adhesive
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7. HANDLING AND STORAGE

Safe Storage: Store away from sources of ignition. Keep
 containers closed when not in use. Avoid exposure
 to direct sunlight.
 Handling: Avoid skin contact. Keep away from eyes.
 Avoid inhalation of vapors.
 Do not use near sources of ignition.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
 Skin: Rubber or plastic gloves.
 Ventilation: Sufficient to maintain vapor concentration below
 TLV. Ventilation should be explosion proof.
 Respiratory Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue liquid
 Odor: Aliphatic
 Boiling Point: 156øF
 pH: Does not apply
 Solubility in Water: Slight
 Specific Gravity 0.7
 Volatile Organic Compound
 (EPA Method 24) Not available
 Vapor Pressure: 132 mm Hg at 68øF
 Vapor Density: 3.0
 Evaporation Rate
 (Ether = 1) 9.2

10. STABILITY AND REACTIVITY

Stability: Stable
 Hazardous Polymerization: Will not occur
 Incompatibility: Strong oxidizing agents.
 Conditions to Avoid: Not available
 Hazardous Decomposition
 Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

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12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
 EPA Hazardous Waste Number: D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
 Domestic Ground Transport
 Proper Shipping Name: Consumer Commodity (Not more than one liter);
 Hexanes solution (More than one liter)
 Hazard Class or Division: ORM-D (Not more than one liter);
 Class 3, Packing Group II (More than one liter)
 Identification Number: None (Not more than one liter);
 UN 1208 (More than one liter)
 Marine Pollutant: None
 IATA
 Proper Shipping Name: Consumer Commodity (Not more than 500 ml);
 Hexanes solution (More than 500 ml)
 Class or Division: Class 9 (Not more than 500 ml);
 Class 3, Packing Group II (More than 500 ml)
 UN or ID Number: ID 8000 (Not more than 500 ml);
 UN 1208 (More than 500 ml)

15. REGULATORY INFORMATION

CA Proposition 65: No California Proposition 65 chemicals are known

to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard:	1
Fire Hazard:	3
Reactivity Hazard:	0
Specific Hazard:	Does not apply

Estimated HMIS(R) Code:

Health Hazard:	1
Flammability Hazard:	3
Reactivity Hazards:	0
Personal Protection:	See Section 8.

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Product Name:	Primer for Rearview Mirror Adhesive
Item No.:	PRIMER 81844

16. OTHER INFORMATION

(continued)

NFPA is a registered	trademark of the National Fire Protection Assn.
HMIS is a registered	trademark of the National Paint and Coatings Assn.

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	Revision: 0004