

PERMATEX INDUSTRIAL CORPORATION

ROCKY HILL, CONNECTICUT 06067  
TELEPHONE: (860) 571-5100

07/02/97

## MATERIAL SAFETY DATA SHEET

Page 01 of 06

Permatex(R) Battery Protector and Sealer  
80370

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Permatex(R) Battery Protector and Sealer  
 Item No.: 80370  
 Part No.: SA-9  
 Product Type: Aerosol Sealant and Protectant

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
TOLUENE*	108-88-3	30-40
Grease mixture	Proprietary	10-20
Residual oils (petroleum), hydrotreated	64742-57-0	10-20
BUTANE	106-97-8	5-20
ISOBUTANE	75-28-5	5-20
PROPANE	74-98-6	5-20
2-BUTOXYETHANOL*	111-76-2	1-10
ETHANE, 1,1,1-TRICHLORO-*	71-55-6	1-10
Mineral oil	64742-52-5	1-10

\* 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
TOLUENE	50 ppm skin 188 mg/M3 skin	100 ppm 375mg/M3	None
BUTANE	800 ppm TWA 1900mg/M3	800 ppm TWA 1900mg/M3	None
PROPANE	Asphyxiant	1000 ppm 1800 mg/m3	None
2-BUTOXYETHANOL	25 ppm TWA skin 121mg/m3 skin	50 ppm TWA skin 120mg/m3 skin	None
ETHANE, 1,1,1-TRICHLORO-	350 ppm TWA 1910 mg/m3	350 ppm TWA 1900 mg/m3	None
Mineral oil	5 mg/m3 mist	5 mg/m3 mist	5 mg/m3 mist
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
TOLUENE	None	150 ppm 560mg/M3	
ETHANE, 1,1,1-TRICHLORO-	450 ppm 2460 mg/m3	450 ppm 2450 mg/m3	

PERMATEX INDUSTRIAL CORPORATION

07/02/97

ROCKY HILL, CONNECTICUT 06067

TELEPHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

Page 02 of 06

Product Name: Permatex(R) Battery Protector and Sealer  
 Item No.: 80370

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

(continued)

Mineral oil 10 mg/m3 mist None

## 3. HAZARDS IDENTIFICATION

Toxicity: Skin and eye irritant. May irritate respiratory tract. Aspiration hazard if swallowed. May cause dizziness or narcosis in high vapor concentrations. Will cause defatting of skin. Long term exposure to high concentrations of vapor may cause lung, liver, or kidney damage. The solvents listed have been reported to affect the central nervous system. May cause cardiac abnormalities. Overexposure to toluene may cause nasal and brain damage. 2-Butoxyethanol may cause corneal injury blood abnormalities, may be absorbed through the skin with toxic effects, and may cause damage to spleen and testes.

Primary Routes of Entry: Skin absorption, ingestion, inhalation

Signs and symptoms  
 of Exposure:

Inhalation: Difficulty in breathing.  
 Skin: Redness.  
 Ingestion: Vomiting.

Existing Conditions

Aggravated by Exposure: Heart disease, respiratory disorders.  
 Toluene may also aggravate central nervous system diseases and alcoholism.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
TOLUENE	AC4 CAR CNS DEV IRR	NO	NO	NO
Grease mixture	No Data	NO	NO	NO
Residual oils (petroleum), hydrotreated	No Data	NO	NO	NO
BUTANE	CAR CNS IRR	NO	NO	NO
ISOBUTANE	CAR CNS LUN	NO	NO	NO
PROPANE	CAR CNS IRR	NO	NO	NO
2-BUTOXYETHANOL	BLO CNS IRR	NO	NO	NO
ETHANE, 1,1,1-TRICHLORO-	AC4 CAR CNS IRR LIV	NO	N/A	NO
Mineral oil	IRR	NO	NO	NO

## Abbreviations

N/A Not Applicable AC4 ACGIH-Unclassifiable as human carc.  
 BLO Blood CAR Cardiac  
 CNS Central nervous system DEV Developmental

PERMATEX INDUSTRIAL CORPORATION

07/02/97

ROCKY HILL, CONNECTICUT 06067  
TELEPHONE: (860) 571-5100

## MATERIAL SAFETY DATA SHEET

Page 03 of 06

Product Name: Permatex(R) Battery Protector and Sealer  
Item No.: 80370

## 3. HAZARDS IDENTIFICATION

(continued)

IRR Irritant LIV Liver  
LUN Lung

## 4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention. Gastric lavage.  
Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention. Give oxygen.  
Skin Contact: Wash with soap and water.  
Eye Contact: Flush with water for at least 15 minutes. Obtain medical attention.

Never administer adrenalin following overexposure.

## 5. FIRE FIGHTING MEASURES

Flash Point: -142°F Method: Tag Closed Cup  
Recommended  
Extinguishing Agents: Carbon dioxide, water fog, dry chemical  
Hazardous Products formed  
by Fire or Thermal Decomp Carbon dioxide, water, halogen acids, phosgene.  
Unusual Fire or  
Explosion Hazards: Heated cans may rupture.

## Explosive Limits:

(% by volume in air) Lower 1.8  
(% by volume in air) Upper 9.5%

## 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case  
of spill or leak: Remove ignition sources. Maintain adequate ventilation. Soak up liquid in an inert absorbent and store in a closed container until disposal.

## 7. HANDLING AND STORAGE

Safe Storage: Store away from heat, spark or open flame.  
Store below 120°F.  
(Contact Loctite Customer Service 1-800-243-4874 for shelf Life information)  
Handling: Avoid prolonged breathing of vapor. Keep away from eyes. Avoid prolonged skin contact.  
Keep away from heat, sparks, or open flame.  
Do not smoke while using. Wash hands after use.  
When spraying more than one half can or more than

PERMATEX INDUSTRIAL CORPORATION  
ROCKY HILL, CONNECTICUT 06067

07/02/97

TELEPHONE: (860) 571-5100

## MATERIAL SAFETY DATA SHEET

Page 04 of 06

Product Name: Permatex(R) Battery Protector and Sealer  
 Item No.: 80370

## 7. HANDLING AND STORAGE

(continued)

one can consecutively, use NIOSH/MSA approved respirator.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.  
 Skin: Rubber or plastic gloves. Long sleeves and long pants.  
 Ventilation: Provide adequate local ventilation to maintain vapor concentration below TLV.  
 Use self contained breathing apparatus when vapor concentration exceeds TLV.

See Section 2 for Exposure Limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Purple liquid  
 Odor: Solvent  
 Boiling Point: -40°F to 232°F  
 pH: Does not apply  
 Solubility in Water: Negligible  
 Specific Gravity: 0.8  
 Volatile Organic Compound (EPA Method 24) 61.3% ; 490 grams per liter (calculated)  
 Vapor Pressure: 57 psig at 70°F  
 Vapor Density: 4.0  
 Evaporation Rate (Ether = 1) Faster than butyl acetate

## 10. STABILITY AND REACTIVITY

Stability: Stable  
 Hazardous Polymerization: Will not occur  
 Incompatibility: Strong oxidizers; active metals, strong alkalies, reactive metals, zinc, sodium, potassium.  
 Conditions to Avoid: Not available  
 Hazardous Decomposition Products (non-thermal): None

## 11. TOXICOLOGICAL INFORMATION

See Section 3.

PERMATEX INDUSTRIAL CORPORATION

ROCKY HILL, CONNECTICUT 06067  
 TELEPHONE: (860) 571-5100

07/02/97

## MATERIAL SAFETY DATA SHEET

Page 05 of 06

Product Name: Permatex(R) Battery Protector and Sealer  
 Item No.: 80370

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal:

Do not puncture or incinerate cans. Give cans to licensed disposal service equipped for safe disposal of aerosol containers.

EPA Hazardous Waste Number

D001/F002 - Hazardous waste per 40CFR 261.21 and 261.31/1,1,1-Trichloroethane

## 14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Consumer Commodity

Hazard Class or

Division: ORM-D

Identification Number: None

Marine Pollutant: None

IATA

Proper Shipping Name: Aerosols, flammable, n.o.s. containing substances in Division 6.1, Packing Group III

Class or Division: Division 2.1 Subsidiary Risk 6.1

UN or ID Number: UN 1950

## 15. REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

## 16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 2

Fire Hazard: 4

Reactivity Hazard: 0

Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 2

Flammability Hazard: 4

Reactivity Hazards: 0

Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.

PERMATEX INDUSTRIAL CORPORATION

ROCKY HILL, CONNECTICUT 06067

TELEPHONE: (860) 571-5100

07/02/97

## MATERIAL SAFETY DATA SHEET

Page 06 of 06

Product Name: Permatex(R) Battery Protector and Sealer  
Item No.: 80370

## 16. OTHER INFORMATION

(continued)

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

Prepared By: Stephen Repetto  
Title: Research Chemist, Health and Safety  
Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067  
(24hr.) Phone: (860) 571-5100  
Revision Date: April 15, 1997

Revision: 0005