

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

## MATERIAL SAFETY DATA SHEET

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Permatex(R) Battery Cleaner  
80369

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Permatex(R) Battery Cleaner  
Item No.: 80369  
Part No.: SA-8  
Product Type: Aerosol cleaner

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Water	7732-18-5	70-80
ISOBUTANE	75-28-5	10-20
Sodium bicarbonate	144-55-8	1-10
Triethanolamine	102-71-6	1-10

## Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Triethanolamine	5 mg/m3	None	None
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	

## 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.

Note: Eye irritation may be severe. Deliberately concentrating and inhaling the vapors of the contents may be harmful or fatal. Sodium bicarbonate has been shown to cause developmental abnormalities in experimental animals when introduced into the peritoneum and changes in lungs/thorax/respiration, increased urine volume, and changes in nutrition and gross metabolism in experimental animals upon ingestion. It is our best technical judgement that with proper protection normal use of this product poses

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## 3. HAZARDS IDENTIFICATION

(continued)

no such chronic hazards.  
Primary Routes of Entry: Inhalation, ingestion, skin.  
Signs and symptoms  
of Exposure: Inhalation: Difficulty in breathing.  
Skin: Redness.  
Ingestion: Vomiting.  
Existing Conditions  
Aggravated by Exposure: Heart disease, respiratory disorders.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Water	No Data	NO	NO	NO
ISOBUTANE	CAR CNS LUN	NO	NO	NO
Sodium bicarbonate	IRR	NO	NO	NO
Triethanolamine	ALG IRR	NO	NO	NO

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## Abbreviations

ALG Allergen	CAR Cardiac
CNS Central nervous system	IRR Irritant
LUN Lung	

## 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. Give oxygen.  
Skin Contact: Wash with soap and water.  
Eye Contact: Flush with water for at least 15 minutes. Obtain  
medical attention.

## 5. FIRE FIGHTING MEASURES

Flash Point: -160°F (Propellant) Method: Tag Closed Cup  
Recommended  
Extinguishing Agents: Water fog, dry chemical, carbon dioxide.  
Hazardous Products formed  
by Fire or Thermal Decomp Irritating organic vapors; carbon dioxide;  
sodium carbonate; oxides of nitrogen  
Unusual Fire or  
Explosion Hazards: Heated cans may rupture.  
Explosive Limits:  
(% by volume in air) Lower 1.9%

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## 5. FIRE FIGHTING MEASURES

(continued)

(% by volume in air) Upper 8.5%

## 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  
Handling:

Service 1-800-243-4874 for shelf Life information)  
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 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 NIOSH/MSHA approved respirator if vapor concentration exceeds TLV.

See Section 2 for Exposure Limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

White Foam

Odor:

Solvent

Boiling Point:

-11.7°F to 212°F

pH:

More than 7

Solubility in Water:

Soluble

Specific Gravity

0.9

Volatile Organic Compound

(EPA Method 24)

14.2 %; 128 grams per liter (calculated)

Vapor Pressure:

31 psig at 70°F

Vapor Density:

4.0

Evaporation Rate

(Ether = 1)

Slower than butyl acetate

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## 10. STABILITY AND REACTIVITY

Stability: Stable  
Hazardous Polymerization: Will not occur  
Incompatibility: Strong oxidizers, strong mineral acids, reducers,  
strong alkalies, zinc, reactive metals, ketones,  
organic anhydrides and halides, aldehydes,  
acrylates.  
Hazardous Decomposition  
Products (non-thermal): None

## 11. TOXICOLOGICAL INFORMATION

See Section 3.

## 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 - Hazardous waste per 40CFR 261.21

## 14. TRANSPORT 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: Consumer Commodity (Not more than 820 ml);  
Aerosols, non-flammable (More than 820 ml)  
Class or Division: Class 9 (Not more than 820 ml);  
Division 2.2 (More than 820 ml)  
UN or ID Number: ID 8000 (Not more than 820 ml);  
UN 1950 (More than 820 ml)

## 15. REGULATORY INFORMATION

CA Proposition 65: Warning: This product contains a chemical known to  
the State of California to cause cancer.

LOCTITE CORPORATION

09/11/96

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

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## Technical Data Sheet

### Permatex® Battery Cleaner

AAM Revised 10/02

#### PRODUCT DESCRIPTION

S.I.N.: 834-300

Permatex® Battery Cleaner is an aerosol product for cleaning all types of storage batteries and attachments in vehicles and emergency power supply systems. The product penetrates and removes corrosion, dirt and grime instantly.

#### PRODUCT BENEFITS

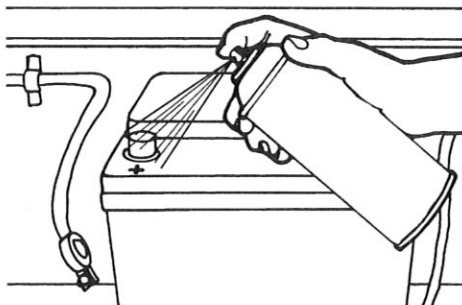
- Removes power-robbing corrosion
- Fast acting
- Penetrates - no disassembly required

#### TYPICAL APPLICATIONS

- Batteries
- Cables
- Terminal connections

#### DIRECTIONS FOR USE

1. Provide adequate ventilation.
2. Shake can with ball agitator for one minute. For best results, aerosol can should be at room temperature before spraying.
3. Holding can 8 to 10 inches from the surface to be cleaned, press the nozzle and discharge the product onto the corroded area. The product discharges as a foam.



4. Let stand for approximately five minutes
5. Flush with water using a gentle flow to avoid splashing the dissolved corrosion.
6. Wipe battery clean with rag, shop cloth or paper towel.
7. For best results, seal terminals with Permatex® Battery Protector & Sealer.

#### For Cleanup

1. Clean hands with Permatex® brand hand cleaners.

#### PROPERTIES OF MATERIAL

Chemical Type  
Appearance  
Odor  
Flash Point

NFPA 704 Flammability Rating

#### Typical Value

Alkaline cleaner  
White foam  
Amine

Aerosol, contents under pressure,  
consult MSDS  
4 (Highly flammable)

#### GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected for use with chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

#### ORDERING INFORMATION

Part Number	Container Size
80369 (SA-8)	6 oz. aerosol can

#### STORAGE

Products shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8\_ to 28\_C (46\_ to 82\_F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range.

#### NOTE

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