



# SAFETY DATA SHEET

This safety data sheet complies with the requirements of: (CLP) Regulation (EC 1272/2008)

Revision Date 22-Mar-2017

Version 3

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product Code 44209  
Product Name VERSACHEM 4-MINUTE STEEL EPOXY (RESIN)

Contains BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use (Epoxy resin)  
Uses advised against No information available

### 1.3. Details of the supplier of the safety data sheet

#### Importer

ITW Permatex  
10 Columbus Blvd.  
Hartford, CT 06106 USA  
Telephone: 1-87-Permatex  
(877) 376-2839

#### E-mail address

mail@permatex.com

### 1.4. Emergency telephone number

24 Hour Emergency Phone Number - 800-255-3924 (00+ 1+ 813-248-0585) ChemTel

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1 - (H317)
Chronic aquatic toxicity	Category 3 - (H412)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Full text of R-phrases: see section 16

### 2.2. Label elements

Contains BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN



**Signal word**  
Warning

**Statements of hazard**

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**

- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P272 - Contaminated work clothing should not be allowed out of the workplace
- P273 - Avoid release to the environment

**Other Information**

- Contains epoxy constituents with an average molecular weight of <= 700

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

Chemical Name	EC No	CAS No	Weight-%	Classification according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
EPOXY RESIN (EPICHLOROHYDRIN , BISPHENOL A)	-	25085-99-8	30-40	-	Skin Irrit. Cat. 2 Eye Irrit. Cat. 2 Skin Sens. Cat. 1 Aquatic Chronic Cat. 3	No data available
BENZYL ALCOHOL	202-859-9	100-51-6	<5	Xn; R20/22	Acute Tox. 4 (H302) Acute Tox. 4 (H332)	No data available

**Full text of R-phrases: see section 16**

**Full text of H- and EUH-phrases: see section 16**

**Section 4: FIRST AID MEASURES**

**4.1. Description of first aid measures**

- General advice** Get medical advice/attention if you feel unwell.
- Inhalation** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
- Skin contact** IF ON SKIN: Wash with soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
- Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

**Ingestion** IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

**Self-protection of the first aider** Use personal protective equipment as required.

**4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms** See section 2 for more information

**4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**Section 5: FIRE FIGHTING MEASURES**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Carbon dioxide (CO2). Foam. Dry chemical.

**Unsuitable extinguishing media**

No information available

**5.2. Special hazards arising from the substance or mixture**

None in particular.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin. Wash thoroughly after handling.

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

**6.3. Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

**6.4. Reference to other sections**

See section 8 for more information. See section 13 for more information.

**Section 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid breathing vapors or mists.

**General Hygiene Considerations**

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place.

**Incompatible materials**

Strong oxidizing agents, Bases, Acids, Amines

**7.3. Specific end use(s)**

**Specific use(s)**

Automotive Care Product.

**Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
BENZYL ALCOHOL 100-51-6	-	-	-	TWA: 10 ppm TWA: 45 mg/m <sup>3</sup>	-
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
BENZYL ALCOHOL 100-51-6	-	-	TWA: 240 mg/m <sup>3</sup>	-	-

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering Controls** Use exhaust ventilation to keep airborne concentrations below exposure limits.

**Personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.  
**Skin and body protection** Suitable protective clothing. Gloves made of plastic or rubber.  
**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**Physical state** Liquid  
**Appearance** Black  
**Odor** Mild  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range	> 232 °C / >450 °F	
Flash point	> 93 °C / > 200 °F	
Evaporation rate	< 1	Butyl acetate = 1
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	>1	Air = 1
Relative density	1.62	
Water solubility	Negligible	
Solubility(ies)	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	
 <b><u>9.2. Other information</u></b>		
Softening point	No information available	
Molecular weight	No information available	
VOC Content (%)	0	
Density	No information available	
Bulk density	No information available	

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Not applicable

### 10.2. Chemical stability

Stable under normal conditions.

#### Explosion data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

### 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Excessive heat.

### 10.5. Incompatible materials

Strong oxidizing agents  
Bases  
Acids  
Amines

### 10.6. Hazardous decomposition products

Carbon oxides

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Product Information

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	Irritating to eyes. May cause redness and tearing of the eyes.
<b>Skin contact</b>	May cause skin irritation and/or dermatitis. May cause sensitization by skin contact.
<b>Ingestion</b>	Ingestion may cause irritation to mucous membranes.

The following values are calculated based on chapter 3.1 of the GHS document

<b>ATEmix (oral)</b>	6,623.00 mg/kg
<b>ATEmix (dermal)</b>	38,080.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	28.60 mg/l

#### Unknown acute toxicity

- 54.9 % of the mixture consists of ingredient(s) of unknown toxicity.
- 2.4 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 52.4 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 54.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 54.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 52.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
CRYSTALLINE SILICA	= 500 mg/kg ( Rat )		

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration hazard:</b>	No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
BENZYL ALCOHOL	35: 3 h Anabaena variabilis mg/L	10: 96 h Lepomis macrochirus mg/L	23: 48 h water flea mg/L EC50

	EC50	LC50 static 460: 96 h Pimephales promelas mg/L LC50 static	
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**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

Chemical Name	Partition coefficient
BENZYL ALCOHOL	1.1

**12.4. Mobility in soil**

**Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

No information available

**Endocrine Disruptor Information**

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
EPOXY RESIN (EPICHLOROHYDRIN, BISPHENOL A)	Group III Chemical	-	-

**Section 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

<b>Waste from residues/unused products</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Do not reuse container.
<b>Waste codes / waste designations according to EWC / AVV</b>	No data available
<b>Other Information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

**Section 14: TRANSPORT INFORMATION**

**IMDG**

14.1 UN/ID no	Not regulated
14.2 Proper shipping name:	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing Group	None

14.5 Environmental hazard Not applicable  
 14.6 Special Provisions No information available  
 14.7 EmS-No Not applicable

**RID**

14.1 UN/ID no Not regulated  
 14.2 Proper shipping name: Not regulated  
 14.3 Hazard Class Not regulated  
 14.4 Packing Group None  
 14.5 Environmental hazard Not applicable  
 14.6 Special Provisions No information available  
 14.7 Classification code No information available

**ADR**

14.1 UN/ID no Not regulated  
 14.2 Proper shipping name: Not regulated  
 14.3 Hazard Class Not regulated  
 14.4 Packing Group None  
 14.5 Environmental hazard Not applicable  
 14.6 Special Provisions No information available  
 14.7 Classification code No information available

**IATA**

14.1 UN/ID no Not regulated  
 14.2 Proper shipping name: Not regulated  
 14.3 Hazard Class Not regulated  
 14.4 Packing Group None  
 14.5 Environmental hazard Not applicable  
 14.6 Special Provisions No information available  
 14.7 ERG Code Not applicable

**Section 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Chemical Name	French RG number	Title
BENZYL ALCOHOL 100-51-6	RG 84	-

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**International Inventories**

TSCA Complies  
 DSL/NDSL Complies



EINECS/ELINCS	Complies
ENCS	Not determined
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances

**15.2. Chemical safety assessment**

No information available

**Section 16: OTHER INFORMATION**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of R-phrases referred to under sections 2 and 3**

No information available

**Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed  
H332 - Harmful if inhaled  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H317 - May cause an allergic skin reaction  
H412 - Harmful to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Revision Date** 22-Mar-2017

**Revision Note** Not applicable.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**End of Safety Data Sheet**