



## Safety Data Sheet

Page 1 of 9

PATTEX STEEL SLOWSET EPOXY #17

SDS No. : 157281

V001.1

Revision: 23.08.2019

printing date: 23.08.2019

### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** PATTEX STEEL SLOWSET EPOXY #17

**Intended use:** Epoxy resin

**Supplier:**

Henkel New Zealand Ltd  
2 Allens Rd  
Auckland, 2013  
New Zealand

Phone: +64 (9) 272-6710

**Emergency information:** 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

### SECTION 2 HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**HSNO Classification:**

6.3A Class 6 - Toxicity, Subclass 6.3 - Skin irritant, Hazard Classification A  
Class 6 - Toxicity, Subclass 6.4 - Eye irritant, Hazard Classification A  
Class 6 - Toxicity, Subclass 6.5 - Sensitisation, Hazard Classification B  
Class 9 - Ecotoxicity, Subclass 9.1 - Aquatic, Hazard Classification B

**GHS Classification:**

**Hazard Class**

Skin irritation

Serious eye irritation

Skin sensitizer

Acute hazards to the aquatic environment

Chronic hazards to the aquatic environment

**Hazard Category**

Category 2

Category 2A

Category 1

Category 2

Category 2

**Hazard pictogram:**



**Signal word:**

Warning

**Hazard statement(s):** H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statement(s):**

**Prevention:** P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear eye protection/face protection.  
P280 Wear protective gloves.

**Response:** P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing.  
P391 Collect spillage.

**Disposal:** P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

**General chemical description:** Mixture  
**Type of preparation:** Mixture

**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	25068-38-6	30- 60 %
Bisphenol A, polymer with formaldehyde and epichlorohydrin	28906-96-9	< 5 %
non hazardous ingredients~		30- 60 %

**SECTION 4 FIRST AID MEASURES**

**Ingestion:** Do not induce vomiting.  
Have victim rinse mouth thoroughly with water.  
Seek medical advice.

**Skin:** Immediately flush skin with plenty of water (using soap, if available).  
Seek medical advice.

**Eyes:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical attention from a specialist.

<b>Inhalation:</b>	Move to fresh air. Keep warm and in a quiet place. If adverse health effects develop seek medical attention.
<b>First Aid facilities:</b>	Eye wash Normal washroom facilities
<b>Medical attention and special treatment:</b>	Treat symptomatically.

### SECTION 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Carbon dioxide, foam, powder Fine water spray
<b>Improper extinguishing media:</b>	Water spray jet
<b>Decomposition products in case of fire::</b>	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen.
<b>Special protective equipment for fire-fighters:</b>	Wear protective equipment. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
<b>Additional fire fighting advice:</b>	In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Danger of slipping on spilled product. Wear impervious gloves and chemical splash goggles. Ensure adequate ventilation. Avoid skin and eye contact.
<b>Environmental precautions:</b>	Do not empty into drains / surface water / ground water.
<b>Clean-up methods:</b>	Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Dispose of contaminated material as waste according to Section 13.

### SECTION 7. HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	Gloves and safety glasses should be worn Ensure that workrooms are adequately ventilated. Avoid skin and eye contact.
<b>Conditions for safe storage:</b>	Keep container tightly sealed. Store in a cool, dry place. Keep away from heat and direct sunlight.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Workplace exposure standards:**

None

<b>Engineering controls:</b>	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.
<b>Eye protection:</b>	Tightly fitting safety goggles
<b>Skin protection:</b>	Use of protective coveralls and long sleeves is recommended. Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced. Nitrile gloves.
<b>Respiratory protection:</b>	If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	black paste
<b>Odor:</b>	mild
<b>Specific gravity:</b>	1.82
<b>Boiling point:</b>	> 149 °C (> 300.2 °F)
<b>Flash point:</b> (Pensky Martens closed cup)	> 204 °C (> 399.2 °F)
<b>Solubility in water:</b>	Insoluble
<b>Viscosity (dynamic):</b> (Brookfield; Instrument: HBT; 25 °C (77 °F); speed of rotation: 5 min-1; Spindle No: TA; Method: ; LCT STM 10; Viscosity Brookfield)	60,000 - 150,000 mPa.s
<b>VOC content:</b> (2010/75/EC)	< 3 %

## SECTION 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of temperature and pressure.
<b>Conditions to avoid:</b>	Avoid heating. Keep away from open flames, hot surfaces and sources of ignition. Store away from incompatible materials.

**Incompatible materials:** Acids.  
Amines.  
Bases.  
Oxidizing agents.

**Hazardous decomposition products:** Thermal decomposition can lead to release of irritating gases and vapors.  
Carbon monoxide.  
Carbon dioxide.  
Oxides of nitrogen.

**Hazardous polymerization:** Will not occur.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Health Effects:**

**Ingestion:** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Skin:** This product is irritating to the skin.  
Symptoms may include redness, edema, drying, defatting and cracking of the skin.  
May cause sensitization by skin contact.

**Eyes:** Causes serious eye irritation.  
Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**Inhalation:** Vapors may cause headaches, nausea, dizziness and respiratory tract irritation.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 420 (Acute Oral Toxicity) not specified
	LD50	> 2,000 mg/kg	dermal		rat	

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	moderately irritating	24 h	rabbit	Draize Test

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay)
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	negative	oral: gavage		mouse	not specified

**Repeated dose toxicity:**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	NOAEL=50 mg/kg	oral: gavage	14 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

**SECTION 12. ECOLOGICAL INFORMATION**

**General ecological information:** Do not empty into drains / surface water / ground water.

**Ecotoxicity:** Toxic to aquatic life with long lasting effects.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	LC50	1.75 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	EC50	1.7 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	EC50	> 11 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	NOEC	4.2 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	IC50	> 100 mg/l	Bacteria	3 h	activated sludge, industrial	other guideline:

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6		aerobic	5 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	3.242				25 °C	EU Method A.8 (Partition Coefficient)

### SECTION 13. DISPOSAL CONSIDERATIONS

**Waste disposal of product:** Collection and delivery to recycling enterprise or other registered elimination institution.

**Disposal for uncleaned package:** Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

### SECTION 14. TRANSPORT INFORMATION

**Land Transport:**

UN no.: 3082  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Bisphenol-A Epichlorhydrin resin)  
Class or division: 9  
Packing group: III

**Marine transport IMDG:**

UN no.: 3082  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Bisphenol-A Epichlorhydrin resin)  
Class or division: 9  
Packing group: III  
EmS: F-A ,S-F  
Seawater pollutant: Marine pollutant

**Air transport IATA:**

UN no.: 3082  
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A  
Epichlorhydrin resin)  
Class or division: 9  
Packing group: III  
Packing instructions (passenger) 964  
Packing instructions (cargo) 964

**Further information for transport:**

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

**SECTION 15. REGULATORY INFORMATION**

**HSNO Approval Number:** HSR002670

**Site and Storage:** Refer to the site and storage requirements for this Group Standard.  
Refer to the HSNO controls for approved hazardous substances.

**NZIoC:** Compliant for NZIOC



**SECTION 16. OTHER INFORMATION**

**Abbreviations/acronyms:**

STEL - Short term exposure limit  
TWA - Time weighted average  
HSNO - Hazardous Substances and New Organisms  
GHS: Globally Harmonized System  
CAS: Chemical Abstracts Service  
LD 50: Lethal Dose 50%  
LC 50: Lethal Concentration 50%  
IMDG: International Maritime Dangerous Goods code  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

**Reason for issue:**

Reviewed SDS. Reissued with new date. involved chapters: 1 - 16

**Date of previous issue:**

26.09.2014

**Disclaimer:**

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel New Zealand Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel New Zealand Limited concerning the properties of the material.

The information contained in this Material Safety Data Sheet is offered in good faith and has been developed from what is believed to be accurate and reliable sources. The information is offered without warranty, representation, inducement or licence and Henkel New Zealand Limited assumes no legal responsibility for reliance upon same. Henkel New Zealand Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated Material Safety Data Sheet.

This information is not to be construed as a representation that the material is suitable for any particular purpose or use except those conditions and warranties implied by Government statutes. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use.