



## Safety Data Sheet

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Loctite Epoxy Marine Resin

SDS No. : 580896

V001.1

Revision: 11.04.2022

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### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product name:</b>	Loctite Epoxy Marine Resin
<b>Intended use:</b>	Epoxy resin
<b>Supplier:</b>	Henkel New Zealand Ltd 2 Allens Rd Auckland, 2013 New Zealand Phone: +64 (9) 272-6710
<b>Emergency information:</b>	24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

Classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

#### GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>
Skin irritation	Category 2
Serious eye irritation	Category 2A
Skin sensitizer	Category 1
Target Organ Systemic Toxicant - Repeated exposure	Category 1

#### Hazard pictogram:



#### Signal word:

Danger

<b>Hazard statement(s):</b>	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H372 Causes damage to organs through prolonged or repeated exposure.
<b>Precautionary Statement(s):</b>	
<b>Prevention:</b>	P260 Do not breathe mist/vapours. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves, eye protection, and face protection.
<b>Response:</b>	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. P314 Get medical advice/attention if you feel unwell. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.
<b>Disposal:</b>	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

**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
reaction product: bisphenol-A-(epichlorhydrin)	25068-38-6	30- < 50 %
Quartz (SiO <sub>2</sub> ) respirable particulates (RCS) >=10%	14808-60-7	20- < 30 %
reaction product: bisphenol-A-(epichlorhydrin)	25068-38-6	10- < 20 %
Calcium carbonate	471-34-1	1- < 10 %
Limestone	1317-65-3	1- < 10 %
2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane	2095-03-6	0.1- < 1 %

**SECTION 4 FIRST AID MEASURES**

<b>Ingestion:</b>	Do not induce vomiting. Have victim rinse mouth thoroughly with water. Seek medical advice.
<b>Skin:</b>	Rinse with running water and soap. If symptoms develop and persist, get medical attention.
<b>Eyes:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.
<b>Inhalation:</b>	Move to fresh air. If symptoms persist, seek medical advice.
<b>First Aid facilities:</b>	Eye wash Normal washroom facilities

**Medical attention and special treatment:** Treat symptomatically.

**SECTION 5. FIRE FIGHTING MEASURES**

**Suitable extinguishing media:** Use media appropriate for surrounding material.

**Combustion behaviour:** Non-flammable (aqueous solution). In case of fire toxic gases can proceed after evaporation of water and further heating of the product.

**Decomposition products in case of fire:** Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Additional fire fighting advice:** In case of fire, keep containers cool with water spray.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Avoid contact with skin and eyes.  
Wear protective equipment.  
See advice in section 8

**Environmental precautions:** Do not empty into drains / surface water / ground water.

**Clean-up methods:** Absorb spill with inert material. Shovel material into appropriate container for disposal.  
Wash away residue with plenty of water.

**SECTION 7. HANDLING AND STORAGE**

**Precautions for safe handling:** Use only in well-ventilated areas.  
Avoid contact with eyes, skin and clothing.  
Gloves and safety glasses should be worn  
See advice in section 8

**Conditions for safe storage:** Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Workplace exposure standards:**

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
SILICA-CRYSTALLINE (ALL FORMS), RESPIRABLE DUST 14808-60-7	Respirable dust.		0.05	-	-	-
CALCIUM CARBONATE 471-34-1			10	-	-	-
LIMESTONE 1317-65-3		10		-	-	-

**Biological Exposure Indices:**  
None

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Tan Liquid
<b>Odor:</b>	Epoxy
<b>Flash point:</b>	> 200 °C (> 392 °F)
<b>Density:</b>	1.52 g/cm <sup>3</sup>

**SECTION 10. STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable under normal conditions of temperature and pressure.
<b>Conditions to avoid:</b>	Keep away from heat, ignition sources and incompatible materials.
<b>Incompatible materials:</b>	Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**SECTION 11 TOXICOLOGICAL INFORMATION****Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	LD50 LD50	> 2,000 mg/kg > 2,000 mg/kg	oral dermal		rat rat	OECD Guideline 420 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Quartz (SiO <sub>2</sub> ) respirable particulates (RCS) >=10% 14808-60-7	LD50 LD50	> 22,500 mg/kg > 5,000 mg/kg	oral dermal		rat rat	not specified not specified
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	LD50 LD50	> 2,000 mg/kg > 2,000 mg/kg	oral dermal		rat rat	OECD Guideline 420 (Acute Oral Toxicity) not specified
Calcium carbonate 471-34-1	LD50 LC50 LD50	> 2,000 mg/kg > 3 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rat	OECD Guideline 420 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Limestone 1317-65-3	LD50 LD50	> 5,000 mg/kg > 5,000 mg/kg	oral dermal		rat rat	not specified not specified
2,2'-[methylenebis(p- phenyleneoxymethylene)] bisoxirane 2095-03-6	LD50 LD50	> 2,000 mg/kg > 2,000 mg/kg	oral dermal		rat rat	OECD Guideline 420 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	not irritating	4 h	rabbit	not specified
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	moderately irritating	24 h	rabbit	Draize Test
Calcium carbonate 471-34-1	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Limestone 1317-65-3	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Calcium carbonate 471-34-1	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Limestone 1317-65-3	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) 25068-38-6	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Calcium carbonate 471-34-1	not sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Limestone 1317-65-3	not sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2,2'-[methylenebis(p- phenyleneoxymethylene)] bisoxirane 2095-03-6	sensitising	Mouse local lymphnod e 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) 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) 25068-38-6	negative	oral: gavage		mouse	not specified
reaction product: bisphenol-A- (epichlorhydrin) 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) 25068-38-6	negative	oral: gavage		mouse	not specified
Calcium carbonate 471-34-1	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Limestone 1317-65-3	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

**Repeated dose toxicity:**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	NOAEL=50 mg/kg	oral: gavage	14 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	NOAEL=50 mg/kg	oral: gavage	14 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Calcium carbonate 471-34-1	NOAEL=1,000 mg/kg	oral: gavage	48 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Limestone 1317-65-3	NOAEL=1,000 mg/kg	oral: gavage	48 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

**General ecological information:**

Do not empty into drains / surface water / ground water.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
reaction product: bisphenol-A-(epichlorhydrin) 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) 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) 25068-38-6	EC50	> 11 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
reaction product: bisphenol-A-(epichlorhydrin) 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) 25068-38-6	IC50	> 100 mg/l	Bacteria	3 h	activated sludge, industrial	other guideline:
reaction product: bisphenol-A-(epichlorhydrin) 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) 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) 25068-38-6	EC50	> 11 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
reaction product: bisphenol-A-(epichlorhydrin) 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) 25068-38-6	IC50	> 100 mg/l	Bacteria	3 h	activated sludge, industrial	other guideline:
Calcium carbonate 471-34-1	LC50	Toxicity > Water solubility	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Calcium carbonate 471-34-1	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Calcium carbonate 471-34-1	EC50	Toxicity > Water solubility	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium carbonate 471-34-1	NOEC	14 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium carbonate 471-34-1	EC50	Toxicity > Water solubility	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Limestone 1317-65-3	LC50	> 10,000 mg/l	Fish	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
Limestone 1317-65-3	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Limestone 1317-65-3	EC50	> 200 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Limestone 1317-65-3	EC50	> 1,000 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane 2095-03-6	LC50	> 1 - 10 mg/l	Fish	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane 2095-03-6	EC50	> 1 - 10 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
reaction product: bisphenol-A-(epichlorhydrin) 25068-38-6	not readily biodegradable.	aerobic	5 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
reaction product: bisphenol-A-(epichlorhydrin) 25068-38-6	not readily biodegradable.	aerobic	5 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
2,2'-[methylenebis(p-phenyleneoxymethylene)]bisoxirane 2095-03-6	not readily biodegradable.	aerobic	< 10 %	OECD 301 A - F

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
reaction product: bisphenol-A-(epichlorhydrin) 25068-38-6	3.242				25 °C	EU Method A.8 (Partition Coefficient)
reaction product: bisphenol-A-(epichlorhydrin) 25068-38-6	3.242				25 °C	EU Method A.8 (Partition Coefficient)
Calcium carbonate 471-34-1	-2.12					QSAR (Quantitative Structure Activity Relationship)

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste disposal of product:** Dispose of in accordance with local and national regulations.

**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****Dangerous Goods information:****Land Transport:**

Classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

**Land Transport:**

UN no.: 3082  
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)  
 Class or division: 9  
 Packing group: III  
**Marine transport IMDG:**

UN no.: 3082  
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy 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. (Epoxy 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), A197 (IATA), 2.10.2.7 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

**SECTION 15. REGULATORY INFORMATION**

**New Zealand regulatory information:**

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

**HSNO Approval Number:** Group standard HSR002670

**NZIoC:** Compliant for NZIOC

**SECTION 16. OTHER INFORMATION**

**Abbreviations/acronyms:** GHS: Globally Harmonized System  
CAS: Chemical Abstracts Service  
IMDG: International Maritime Dangerous Goods code  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

**Reason for issue:** First issue. involved chapters: 1-16

**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.

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