



## Safety Data Sheet

Page 1 of 8

LOCTITE EA 3471 A known as Fixmaster Steel Putty RESIN

SDS No. : 157173

V001.4

Date of issue: 04.03.2020

### Section 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** LOCTITEEA 3471 A known as Fixmaster Steel Putty RESIN

**Intended use:** Epoxy resin

**Supplier:**

Henkel Australia Pty Ltd  
135-141 Canterbury Road  
Kilsyth, Victoria, 3137  
Australia

Phone: +61 (3) 9724 6444

**Emergency information:** 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

### Section 2. Hazards identification

**Classification of the substance or mixture**

Hazardous according to the criteria of Safe Work Australia.

**GHS Classification:**

<u>Hazard Class</u>	<u>Hazard Category</u>
Skin irritation	Category 2
Serious eye irritation	Category 2A
Skin sensitizer	Category 1
Acute hazards to the aquatic environment	Category 2
Chronic hazards to the aquatic environment	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 protective gloves, eye protection, and face protection.
- 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.

**Dangerous Goods information:**

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

**Section 3. Composition / information on ingredients**

**General chemical description:** Mixture  
Epoxy resin

**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
reaction product: bisphenol-A-(epichlorhydrin)	25068-38-6	10- < 30 %
1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	17557-23-2	< 5 %
non hazardous ingredients~		60- <= 100 %

**Section 4. First aid measures**

- Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel.  
Never give anything by mouth to an unconscious person.  
Get medical attention.
- Skin:** Immediately flush skin with plenty of water (using soap, if available).  
Remove contaminated clothing and footwear.  
Get medical attention.  
Wash clothing before reuse.
- Eyes:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Get medical attention.

<b>Inhalation:</b>	Move to fresh air. Keep affected person warm and at rest. If not breathing, give artificial respiration. Get medical attention.
<b>First Aid facilities:</b>	Eye wash and safety shower Normal washroom facilities

### Section 5. Fire fighting measures

<b>Suitable extinguishing media:</b>	Dry chemical, carbon dioxide (CO2) foam or water spray.
<b>Decomposition products in case of fire:</b>	Irritating and toxic gases or fumes may be released during a fire. Oxides of carbon. Irritating organic fragments. aldehydes
<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>Environmental precautions:</b>	Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Clean residue with soap and water. Store in a closed container until ready for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

### Section 7. Handling and storage

<b>Precautions for safe handling:</b>	Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Refer to Section 8.
<b>Conditions for safe storage:</b>	Store in original container until ready to use. Store in a cool, dry, well ventilated area. Keep container tightly sealed.

### Section 8. Exposure controls / personal protection

**National exposure standards:**

None

---

<b>Engineering controls:</b>	Use local exhaust ventilation if the potential for airborne exposure exists.
<b>Eye protection:</b>	Wear protective glasses with side-pieces.
<b>Skin protection:</b>	Use of protective coveralls and long sleeves is recommended. Suitable protective gloves. The use of polyvinyl alcohol (PVA) gloves is recommended.
<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>	Gray, White Liquid, paste
<b>Odor:</b>	Slight, musty
<b>Specific gravity:</b>	2.6
<b>Flash point:</b> (Closed cup)	> 93 °C (> 199.4 °F)
<b>VOC content:</b>	< 1.0 % < 10 g/l

### Section 10. Stability and reactivity

<b>Stability:</b>	Stable under normal conditions of temperature and pressure.
<b>Conditions to avoid:</b>	Heat, flames, sparks and other sources of ignition. Excessive heat. Store away from incompatible materials.
<b>Incompatible materials:</b>	Strong acids and strong bases. Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	Thermal decomposition can lead to release of irritating gases and vapors.  Oxides of carbon. Aldehydes. Irritating organic vapours.
<b>Hazardous polymerization:</b>	Hazardous polymerization can occur with contact with alkalies.

### Section 11. Toxicological information

**Health Effects:****Ingestion:**

May cause gastrointestinal tract irritation if swallowed.

May cause gastrointestinal disturbances such as nausea, vomiting, abdominal pain, and diarrhea.

**Skin:**

May cause skin irritation with discomfort or rash.

May cause skin sensitization.

**Eyes:**

Causes serious eye irritation.

This product may cause irritation with stinging, tearing, and redness.

**Inhalation:**

Inhalation of product mist may cause irritation of the nose, throat, and respiratory tract.

**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)
1,3-bis(2,3- epoxypropoxy)-2,2- dimethylpropane 17557-23-2	LD50 LD50	4,500 mg/kg > 2,000 mg/kg	oral  dermal		rat rat	not specified 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	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) 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) 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) 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

**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)

**Section 12. Ecological information****General ecological information:**

Toxic to aquatic organisms, May cause long-term adverse effects in the aquatic environment., 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:

**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)

**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)

**Section 13. Disposal considerations****Waste disposal of product:**

Dispose of in accordance with local and national regulations.  
Do not empty into drains / surface water / ground water.

**Disposal for uncleaned package:**

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.  
Disposal must be made according to official regulations.

### Section 14. Transport information

**Road and Rail Transport:**

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

**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

**SUSMP Poisons Schedule** 5

**AICS:** All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

### 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:** Reviewed SDS. Reissued with new date. involved chapters: 1,14,15,16

---

**Date of previous issue:** 24.02.2015

**Disclaimer:**

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel Australia Pty. 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 Australia Pty. Limited concerning the properties of the material.

The information contained in the 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 Australia Pty. Limited assumes no legal responsibility for reliance upon same. Henkel Australia Pty. Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated 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 either Commonwealth or State 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.

No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.