

## **Safety Data Sheet**

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LOCTITE EA 3478 A known as Loctite(R) Fixmaster(R)Superior

SDS No.: 157166

V001.2

Date of issue: 04.09.2020

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

Product name: LOCTITE EA 3478 A known as Loctite(R) Fixmaster(R)Superior

**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

Chronic hazards to the aquatic

environment

Category 2

Hazard pictogram:



Signal word: Warning

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**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

**Type of preparation:** Part A of two part adhesive

**Identity of ingredients:** 

Chemical ingredients	CAS-No.	Proportion
reaction product: bisphenol-A-(epichlorhydrin)	25068-38-6	30- < 60 %
2,2'-[methylenebis(p-	2095-03-6	< 1 %
phenyleneoxymethylene)]bisoxirane		
non hazardous ingredients~		60-<100 %

## Section 4. First aid measures

**Ingestion:** Do not induce vomiting.

Have victim rinse mouth thoroughly with water.

Seek medical attention immediately.

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.

**Inhalation:** Move to fresh air.

Keep warm and in a quiet place.

If adverse health effects develop seek medical attention.

First Aid facilities: Eye wash and safety shower

Normal washroom facilities

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Medical attention and special

treatment:

Treat symptomatically.

#### Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder

Fine water spray

Improper extinguishing media: Water spray jet

Decomposition products in case of

fire:

Thermal decomposition can lead to release of irritating gases and vapors.

Carbon monoxide. Carbon dioxide. Oxides of nitrogen.

Special protective equipment for

fire-fighters:

Wear protective equipment.

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

**Additional fire fighting advice:** 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

Personal precautions: Danger of slipping on spilled product.

Wear impervious gloves and chemical splash goggles.

Ensure adequate ventilation. Avoid skin and eye contact.

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

Clean-up methods: 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

**Precautions for safe handling:** Use only with adequate ventilation.

For the Part A plus Part B adhesive mixture, follow curing schedule as recommended in

product literature.

Empty containers retain product residue, so obey hazard warnings and handle empty

containers as if they were full.

Avoid contact with eyes, skin and clothing.

Wear protective equipment.

**Conditions for safe storage:** Store in sealed original container.

Store in a cool, dry place.

Ensure that storage and workrooms are adequately ventilated. Must be stored in a room with spill collection facilities.

Keep away from heat and direct sunlight.

#### Section 8. Exposure controls / personal protection

## National exposure standards:

None

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Ensure good ventilation/extraction. **Engineering controls:** 

Tightly fitting safety goggles Eye protection:

Skin protection: Use of protective coveralls and long sleeves is recommended.

The use of chemical resistant gloves such as Nitrile 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.

Respiratory protection: 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

Appearance: Gray

pastegrey

paste

Odor: mildmild Specific gravity: 1.14

Flash point: 204 °C (399.2 °F) Vapor pressure: < 700 mbar

(no method; 50 °C (122 °F))

Density: 1.1400 g/cm3 Solubility in water:

1,200,000 - 2,100,000 cPas **Viscosity (dynamic):** 

(; speed of rotation: 2.5 min-1; Spindle No: TF; Method: ;; LCT

STM 10; Viscosity Brookfield)

< 3.00 % **VOC** content:

(2010/75/EC)

#### Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Keep away from open flames, hot surfaces and sources of ignition.

Store away from incompatible materials.

Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately.

**Incompatible materials:** Strong oxidizing agents.

Acids. Bases.

**Hazardous decomposition** 

products:

Thermal decomposition can lead to release of irritating gases and vapors.

Carbon monoxide. Carbon dioxide. Oxides of nitrogen.

## Section 11. Toxicological information

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**Health Effects:** 

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

**Skin:** Irritating to 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. Vapors may cause headaches, nausea, dizziness and respiratory tract irritation.

## Acute toxicity:

Inhalation:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
reaction product:	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 420 (Acute
bisphenol-A-	LD50	> 2,000 mg/kg			rat	Oral Toxicity)
(epichlorhydrin)			dermal			OECD Guideline 402 (Acute
25068-38-6						Dermal Toxicity)
2,2'-[methylenebis(p-	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 420 (Acute
phenyleneoxymethylene)]	LD50	> 2,000 mg/kg			rat	Oral Toxicity)
bisoxirane			dermal			OECD Guideline 402 (Acute
2095-03-6						Dermal Toxicity)

#### Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
reaction product:	moderately irritating	24 h	rabbit	Draize Test
bisphenol-A-				
(epichlorhydrin)				
25068-38-6				

#### Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time	_	
reaction product:	not irritating		rabbit	OECD Guideline 405 (Acute
bisphenol-A-	_			Eye Irritation / Corrosion)
(epichlorhydrin)				
25068-38-6				

## 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)
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

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

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

**Toxicity:** 

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity Study	time		
reaction product: bisphenol-A-	LC50	1.75 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline
(epichlorhydrin)						203 (Fish, Acute
25068-38-6 reaction product: bisphenol-A-	EC50	1.7 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline
(epichlorhydrin)	EC30	1.7 mg/1	Барина	40 11	Dapinna magna	202 (Daphnia sp.
25068-38-6						Acute
						Immobilisation
			J			Test)
reaction product: bisphenol-A-	EC50	> 11 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline
(epichlorhydrin)						201 (Alga, Growth
25068-38-6	NOEC	4.2 /1	A1	72 h	C1	Inhibition Test) OECD Guideline
reaction product: bisphenol-A- (epichlorhydrin)	NOEC	4.2 mg/l	Algae	/2 n	Scenedesmus capricornutum	201 (Alga, Growth
25068-38-6						Inhibition Test)
reaction product: bisphenol-A-	IC50	> 100 mg/l	Bacteria	3 h	activated sludge, industrial	other guideline:
(epichlorhydrin)		C				Ü
25068-38-6	]					
2,2'-[methylenebis(p-	LC50	> 1 - 10 mg/l	Fish	96 h	not specified	OECD Guideline
phenyleneoxymethylene)]biso						203 (Fish, Acute
xirane 2095-03-6						Toxicity Test)
2,2'-[methylenebis(p-	EC50	> 1 - 10 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
phenyleneoxymethylene)]biso	Leso	> 1 10 mg 1	Барина	10 11	Dupiniu mugnu	202 (Daphnia sp.
xirane						Acute
2095-03-6						Immobilisation
						Test)

## Persistence and degradability:

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

## Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
reaction product: bisphenol-A-	3.242				25 °C	EU Method A.8 (Partition
(epichlorhydrin)						Coefficient)
25068-38-6						

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## Section 13. Disposal considerations

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

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:
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).

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#### **Section 16. Other information**

**Abbreviations/acronyms:** ADGC - Australian Dangerous Goods Code

CAS: Chemical Abstracts Service

REACH: Registration, Evaluation, Authorization & Restriction of Chemicals

OECD: Organization for Economic Cooperation and Development

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: 2,3,9,16

Date of previous issue: 21.09.2015

Disclaimer:

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