

Safety Data Sheet according to (EC) No 1907/2006 as amended

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SDS No.: 173485

V010.0 Revision: 04.09.2024

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Replaces version from: 23.11.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

LOCTITE EA 3475 Part A

LOCTITE EA 3475 Part A UFI: S94G-A0CK-800K-DC5R

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

Intended use: Epoxy resin

1.3. Details of the supplier of the safety data sheet

Henkel Ltd Adhesives Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Chronic hazards to the aquatic environment Category 2

H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

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Hazard pictogram:



Contains Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular

weight $\ll 700$)

1,3-Propanediol, 2,2-bis(hydroxymethyl)-, polymer with (chloromethyl)oxirane

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Signal word: Warning

Hazard statement: 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: P273 Avoid release to the environment.

Prevention P280 Wear protective gloves.

Precautionary statement: P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Response P302+P352 IF ON SKIN: Wash with plenty of soap and water. P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

None if used properly.

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3 216-823-5 01-2119456619-26	25-< 40 %	Skin Sens. 1, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	Eye Irrit. 2; H319; C >= 5 % Skin Irrit. 2; H315; C >= 5 %	
Reaction products of hexane-1,6- diol with 2- (chloromethyl)oxirane 933999-84-9 01-2119463471-41	1-< 2,5 %	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412		
1,3-Propanediol, 2,2- bis(hydroxymethyl)-, polymer with (chloromethyl)oxirane 30973-88-7	1-< 2,5 %	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412		
oxirane, mono[(C12-14- alkyloxy)methyl] derivs. 68609-97-2 271-846-8 01-2119485289-22	0,99-< 1 %	Skin Irrit. 2, H315 Skin Sens. 1, H317		

If no ATE values are displayed, please refer to LD/LC50 values in Section 11. For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

SKIN: Rash, Urticaria.

SKIN: Redness, inflammation.

EYE: Irritation, conjunctivitis.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media:

water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

Scrape up as much material as possible.

Sweep up spilled material. Avoid creating dust.

Store in a partly filled, closed container until disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place.

Refer to Technical Data Sheet.

7.3. Specific end use(s)

Epoxy resin

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

None

Occupational Exposure Limits

Valid for

Ireland

None

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Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value	Value			Remarks
	Compartment	periou	mg/l	ppm	mg/kg	others	
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	aqua (freshwater)		0,006 mg/l	P.F.			
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	aqua (marine water)		0,001 mg/l				
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	sewage treatment plant (STP)		10 mg/l				
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	sediment (freshwater)				0,341 mg/kg		
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	sediment (marine water)				0,034 mg/kg		
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	Soil				0,065 mg/kg		
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	oral				11 mg/kg		
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	Freshwater - intermittent		0,018 mg/l				
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	Marine water - intermittent		0,002 mg/l				
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	Air						no hazard identified
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	aqua (freshwater)		0,011 mg/l				
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	Freshwater - intermittent		0,115 mg/l				
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	water)		0,001 mg/l				
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	sewage treatment plant (STP)		1,00 mg/l				
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	sediment (freshwater)				0,283 mg/kg		
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	(marine water)				0,028 mg/kg		
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9					0,223 mg/kg		
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	Predator						no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	aqua (freshwater)		0,106 mg/l				

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Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	aqua (marine water)	0,011 mg/l		
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	Freshwater - intermittent	0,072 mg/l		
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	sewage treatment plant (STP)	10 mg/l		
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	sediment (freshwater)		307,16 mg/kg	
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	sediment (marine water)		30,72 mg/kg	
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	Soil		1,234 mg/kg	
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	Predator			no potential for bioaccumulation

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Derived No-Effect Level (DNEL):

Workers Workers	dermal	Long term		0,75 mg/kg	1 111 .101 1
Workers		exposure - systemic effects			no hazard identified
	Inhalation	Long term exposure - systemic effects		4,93 mg/m3	no hazard identified
General population	dermal	Long term exposure - systemic effects		0,0893 mg/kg	no hazard identified
General population	oral	Long term exposure - systemic effects		0,5 mg/kg	no hazard identified
General population	inhalation	Long term exposure - systemic effects		0,87 mg/m3	no hazard identified
Workers	inhalation	Long term exposure - local effects			no hazard identified
Workers	inhalation	Acute/short term exposure - local effects			no hazard identified
Workers	dermal	Long term exposure - local effects			no hazard identified
Workers	dermal	Acute/short term exposure - local effects			no hazard identified
General population	inhalation	Long term exposure - local effects			no hazard identified
General population	inhalation	Acute/short term exposure - local effects			no hazard identified
General population	dermal	Long term exposure - local effects			no hazard identified
General population	dermal	Acute/short term exposure - local effects			no hazard identified
Workers	inhalation	Long term exposure - local effects		0,44 mg/m3	no potential for bioaccumulation
Workers	inhalation	Long term exposure - systemic effects		10,57 mg/m3	no potential for bioaccumulation
Workers	inhalation	Acute/short term exposure - systemic effects		10,57 mg/m3	no potential for bioaccumulation
Workers	dermal	exposure - systemic effects			no potential for bioaccumulation
	dermal	exposure - local effects			no potential for bioaccumulation
THE COP TO PORT OF THE PORT OF	General population Workers Workers Workers Workers Workers General population General population General population General population Workers Workers Workers Workers	General oppulation Workers inhalation Workers dermal Workers dermal General oppulation Workers dermal General oppulation General oppulation General oppulation General dermal oppulation General oppulation Workers inhalation Workers inhalation Workers inhalation Workers inhalation Workers dermal Workers dermal	population exposure - systemic effects General population oral Long term exposure - systemic effects General population inhalation Long term exposure - systemic effects Workers inhalation Long term exposure - local effects Workers dermal Long term exposure - local effects Workers dermal Long term exposure - local effects Workers dermal Long term exposure - local effects General population inhalation Long term exposure - local effects General population dermal Long term exposure - local effects General population dermal Long term exposure - local effects General population dermal Long term exposure - local effects General population Long term exposure - local effects Workers inhalation Long term exposure - local effects Workers inhalation Long term exposure - local effects Workers inhalation Long term exposure - systemic effects Workers dermal Long term exposure - systemic effects	exposure - systemic effects	exposure - systemic effects General oral Long term exposure - systemic effects General inhalation Long term exposure - systemic effects Workers inhalation Long term exposure - local effects Workers dermal Long term exposure - local effects Workers dermal Long term exposure - local effects Workers dermal Long term exposure - local effects General inhalation Long term exposure - local effects General inhalation Long term exposure - local effects General inhalation Acute/short term exposure - local effects General inhalation Long term exposure - local effects General inhalation Acute/short term exposure - local effects General inhalation Long term exposure - local effects General oppulation dermal Acute/short term exposure - local effects General inhalation Long term exposure - local effects General inhalation Long term exposure - local effects General oppulation dermal Acute/short term exposure - local effects Workers inhalation Long term exposure - local effects Workers inhalation Long term exposure - systemic effects Workers inhalation Acute/short term exposure - systemic effects Workers dermal Long term exposure - systemic effects

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(chloromethyl)oxirane 933999-84-9			exposure - local effects		bioaccumulation
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	General population	inhalation	Long term exposure - local effects	0,27 mg/m3	no potential for bioaccumulation
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	General population	inhalation	Long term exposure - systemic effects	5,29 mg/m3	no potential for bioaccumulation
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	General population	inhalation	Acute/short term exposure - systemic effects	5,29 mg/m3	no potential for bioaccumulation
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	General population	dermal	Long term exposure - systemic effects	3 mg/kg	no potential for bioaccumulation
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	General population	dermal	Long term exposure - local effects	0,0136 mg/cm2	no potential for bioaccumulation
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	General population	dermal	Acute/short term exposure - local effects	0,0136 mg/cm2	no potential for bioaccumulation
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	General population	oral	Long term exposure - systemic effects	1,5 mg/kg	no potential for bioaccumulation
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane 933999-84-9	General population	oral	Acute/short term exposure - systemic effects	1,5 mg/kg	no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	Workers	inhalation	Long term exposure - systemic effects	0,49 mg/m3	no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	Workers	inhalation	Acute/short term exposure - systemic effects		no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	Workers	inhalation	Long term exposure - local effects		no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	Workers	inhalation	Acute/short term exposure - local effects		no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	Workers	dermal	Long term exposure - systemic effects	0,75 mg/kg	no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	Workers	dermal	Acute/short term exposure - systemic effects		no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	Workers	dermal	Long term exposure - local effects		no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	Workers	dermal	Acute/short term exposure - local effects		no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	General population	inhalation	Long term exposure - systemic effects	0,087 mg/m3	no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	General population	inhalation	Acute/short term exposure - systemic effects		no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	General population	inhalation	Long term exposure - local effects		no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	General population	inhalation	Acute/short term exposure - local effects		no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	General population	dermal	Long term exposure - systemic effects	0,089 mg/kg	no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	General population	dermal	Acute/short term exposure - systemic effects		no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	General population	dermal	Long term exposure - local effects		no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	General population	dermal	Acute/short term exposure - local		no potential for bioaccumulation

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68609-97-2			effects		
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	General population	oral	Long term exposure - systemic effects	, , ,	no potential for bioaccumulation
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	General population	oral	Acute/short term exposure - systemic effects		no potential for bioaccumulation

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Dust mask, P2 particle filter.

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form paste

Colour Gray / Grey

Odor characteristic

Physical state solid

Melting point Not available.

Solidification temperature Not applicable, Product is a solid.

Initial boiling point > 100 °C (> 212 °F)no method / method unknown

Flammability The product is not flammable. Explosive limits Not applicable, Product is a solid.

Flash point > 110 °C (> 230 °F)

Auto-ignition temperature Not applicable, Product is a solid.

Decomposition temperature Not applicable, Substance/mixture is not self-reactive, no organic

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peroxide and does not decompose under foreseen conditions of use pН

Not applicable, Product is non-soluble (in water).

Viscosity (kinematic) Not applicable, Product is a solid.

Solubility (qualitative) Insoluble (20 °C (68 °F); Solvent: Water)

Partition coefficient: n-octanol/water Not applicable Mixture

0,01 hPa Vapour pressure (20 °C (68 °F)) Density 1,75 g/cm3

Relative vapour density: Not applicable, Product is a solid. Particle characteristics Not applicable, mixture is a paste.

9.2. Other information

(20 °C (68 °F))

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with strong oxidants. Reaction with strong acids.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

carbon oxides.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	LD50	> 2.000 mg/kg	rat	OECD Guideline 420 (Acute Oral Toxicity)
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	LD50	2.189 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	LD50	26.800 mg/kg	rat	not specified

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Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	LD50	> 4.000 mg/kg	rabbit	not specified

Acute inhalative toxicity:

No data available.

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	moderately irritating	24 h	rabbit	Draize Test
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	irritating	24 h	rabbit	EPA Guideline
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	moderately irritating	24 h	rabbit	EPA OTS 798.4470 (Acute Dermal Irritation)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

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Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	Sub-Category 1A (sensitising)	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	sensitising	Buehler test	guinea pig	EPA OPPTS 870.2600 (Skin Sensitisation)

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Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances 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) 1675-54-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay)
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	negative	oral: gavage		mouse	not specified
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	negative	oral: unspecified		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	negative	intraperitoneal		rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	negative	oral: gavage		rat	OECD Guideline 488 (In Vivo Transgenic Cell Gene Mutation Assays)

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Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	not carcinogenic	dermal	2 y daily	mouse	male	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	not carcinogenic	oral: gavage	2 y daily	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result / Value	Test type	Route of	Species	Method
CAS-No.			application		
Reaction product:	NOAEL P $>= 50 \text{ mg/kg}$	Two	oral: gavage	rat	OECD Guideline 416 (Two-
bisphenol-A-		generation			Generation Reproduction
(epichlorhydrin); epoxy	NOAEL F1 \geq = 750 mg/kg	study			Toxicity Study)
resin (number average					
molecular weight <= 700)	NOAEL F2 $>= 750 \text{ mg/kg}$				
1675-54-3					

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	NOAEL 50 mg/kg	oral: gavage	14 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	NOAEL 300 mg/kg	oral: gavage	90 d daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	NOAEL >= 1 mg/kg	oral: gavage	13 w 5 d/w	rat	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

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SECTION 12: Ecological information

General ecological information:

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

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	LC50	1,75 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Reaction products of hexane- 1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	LC50	30 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
1,3-Propanediol, 2,2- bis(hydroxymethyl)-, polymer with (chloromethyl)oxirane 30973-88-7	LC50	12,7 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	LL50	> 100 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	EC50	1,7 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Reaction products of hexane- 1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	EC50	47 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,3-Propanediol, 2,2- bis(hydroxymethyl)-, polymer with (chloromethyl)oxirane 30973-88-7	EC50	23,9 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	EL50	7,2 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	NOEC	0,3 mg/l	21 d	1 0	OECD 211 (Daphnia magna, Reproduction Test)

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1675-54-3					
oxirane, mono[(C12-14-	NOELR	56 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
alkyloxy)methyl] derivs.					magna, Reproduction Test)
68609-97-2					

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	EC50	> 11 mg/l	72 h	Scenedesmus capricornutum	other guideline:
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	NOEC	4,2 mg/l	72 h	Scenedesmus capricornutum	other guideline:
1,3-Propanediol, 2,2- bis(hydroxymethyl)-, polymer with (chloromethyl)oxirane 30973-88-7	NOEC	1,7 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga Growth Inhibition Test)
1,3-Propanediol, 2,2- bis(hydroxymethyl)-, polymer with (chloromethyl)oxirane 30973-88-7	EC50	15 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga Growth Inhibition Test)

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	IC50	> 100 mg/l	3 h	activated sludge, industrial	other guideline:
Reaction products of hexane- 1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	IC50	> 100 mg/l	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

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The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	not readily biodegradable.	aerobic	5 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Reaction products of hexane- 1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	not readily biodegradable.	aerobic	47 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
1,3-Propanediol, 2,2- bis(hydroxymethyl)-, polymer with (chloromethyl)oxirane 30973-88-7	not readily biodegradable.		< 60 %	28 day	OECD 301 A - F
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	readily biodegradable	aerobic	87 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

12.3. Bioaccumulative potential

No substance data available. No data available. SDS No.: 173485 LOCTITE EA 3475 Part A Page 20 of 23

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12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 1675-54-3	> 2,64 - < 3,78	25 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Reaction products of hexane- 1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	0,822	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	3,77	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	PBT / vPvB
CAS-No.	
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
1675-54-3	
Reaction products of hexane-1,6-diol with 2- (chloromethyl)oxirane 933999-84-9	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

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

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

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.

Waste code

08 04 09* waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

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SECTION 14: Transport information

14.1. UN number or ID number

ADR 3077 RID 3077 ADN 3077 IMDG 3077 IATA 3077

14.2. UN proper shipping name

ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy

resin)

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy

resin)

ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy

resin)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy

resin)

IATA Environmentally hazardous substance, solid, n.o.s. (Epoxy resin)

14.3. Transport hazard class(es)

ADR 9
RID 9
ADN 9
IMDG 9
IATA 9

14.4. Packing group

ADR III
RID III
ADN III
IMDG III
IATA III

14.5. Environmental hazards

ADR Environmentally Hazardous RID Environmentally Hazardous ADN Environmentally Hazardous

IMDG Marine Pollutant

IATA Environmentally Hazardous

14.6. Special precautions for user

ADR not applicable

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Tunnelcode:
RID not applicable
ADN not applicable
IMDG not applicable
IATA not applicable

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), NZ 4.3(10) may be applied, which can result in a deviation from the transport classification for packed goods.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Not applicable Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Not applicable Persistent organic pollutants (Regulation (EU) 2019/1021): Not applicable

VOC content < 3 % Combined A/B

(2010/75/EC)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

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SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

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.

H412 Harmful to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties

EU OEL:

Substance with a Union workplace exposure limit

EU EXPLD 1:

Substance listed in Annex I, Reg (EC) No. 2019/1148

EU EXPLD 2

Substance listed in Annex II, Reg (EC) No. 2019/1148

SVHC:

Substance of very high concern (REACH Candidate List)

PBT:

Substance fulfilling persistent, bioaccumulative and toxic criteria

PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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