

**Gorilla Epoxy (Hardener)**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Product Name Gorilla Epoxy (Hardener)
CAS No. Not applicable.
EC No. Not applicable.
REACH Registration No. Not known.
Unique Formula Identifier (UFI) K2Y8-80AU-N00J-Y7A8

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

Identified Use(s) Hardener.
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer
Company Identification Gorilla Glue Europe Ltd
Address of Manufacturer 26 Eaton Avenue
Matrix Park
Buckshaw Village
Chorley
Lancashire
PR7 7NA
Postal code
Telephone: 01257 241 319
E-mail Eucustomercare@gorillaglue.com
Office hours 08:30 - 17:00
Supplier
Company Identification GG Brands Netherlands B.V.
Address of Supplier Lichttoren 32
5611 BJ
Eindhoven
+31 85 064 4029
Eucustomercare@gorillaglue.com
Office hours 08:30 - 17:00

Telephone:
E-mail
Office hours

1.4 Emergency telephone number

Supplier Contact: Stuart Shotton
Emergency Phone No. +44 (0)843 507 1200

Northern Ireland: NHS Direct (24 hours)
Emergency Phone No. +44 111

Republic of Ireland: NPIC Ireland
Emergency Phone No. +353 (0) 1 809 2166 (8am - 10pm)

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) Skin Irrit. 2 :Causes skin irritation.
Skin Sens. 1A :May cause an allergic skin reaction.
Eye Dam. 1 :Causes serious eye damage.
Aquatic Chronic 3 :Harmful to aquatic life with long lasting effects.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)
Product Name Gorilla Epoxy (Hardener)

Hazard Pictogram(s)



GHS05



GHS07

**Gorilla Epoxy (Hardener)**

Signal Word(s)

Danger

Hazard Statement(s)

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P261: Avoid breathing vapours.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P501: Dispose of contents in accordance with local, state or national legislation.

2.3 Other hazards

None known.

2.4 Additional Information

Note

For full text of H/P Statements see section 16.
Gorilla Epoxy contains 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine CAS No. 25513-64-8 which, according to Annex 1, Table 3.2.3 of CLP carries the H314: corrosive classification. Product level dermal corrosivity testing for Gorilla Epoxy confirms the product is classified as a skin irritant rather than corrosive. Positive results in a valid and accepted skin corrosion test (Corrositex test) classifies the mixture as Non-corrosive utilizing multiple replicate samples indicating highly reproducible results. As a result, the health hazard and transport classification have been changed to reflect the Epoxy results: UN Non-Corrosive and not a GHS Category 1.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Poly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	72244-98-5	615-735-8 01-2120118957-46-XXXX	<85	Skin Sens. 1B H317 Aquatic Chronic 3 H412	GHS07
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	25513-64-8	247-063-2 01-2119560598-25-XXXX	<20	Acute Tox. 4 H302 Skin Corr. 1A H314 Skin Sens. 1A H317 Eye Dam. 1 H318	GHS05 GHS07
1,4-diazabicyclooctane	280-57-9	205-999-9 01-2119980944-22-XXXX	<1	Flam. Sol. 1 H228 Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318	GHS02 GHS05 GHS07
2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4 01-2119565113-46-XXXX	<0.5	Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS09

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact

Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion

Wash out mouth with water. If symptoms develop, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

**Gorilla Epoxy (Hardener)**

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable Extinguishing media As appropriate for surrounding fire.
Unsuitable extinguishing media Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Heating may cause decomposition.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Dike fire control water for later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Avoid breathing vapours. Contaminated work clothing should not be allowed out of the workplace.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

If medical advice is needed, have product container or label at hand. Keep out of reach of children. Avoid breathing vapours. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes. Wash hands and exposed skin thoroughly after handling. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke at the work place.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated place. Opened containers should be carefully resealed and stored in an upright position.

Storage temperature

2-40°C

Storage life

Stable under normal conditions.

Incompatible materials

None known.

7.3 Specific end use(s)

Hardener.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****8.1.1 Occupational Exposure Limits**

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTTEL (8 hr TWA ppm)	LTTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
2,6-di-tert-butyl-p-cresol	128-37-0		10			

Region

Source

EU

EU Occupational Exposure Limits

United Kingdom

UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

**Gorilla Epoxy (Hardener)**

Eye Protection

Wear protective eye glasses for protection against liquid splashes.



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374).
Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Respiratory protection

Wear suitable respiratory protection.



Thermal hazards

Not applicable.

8.2.3. Environmental Exposure Controls Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state	Liquid.
Colour	Amber.
Odour	Characteristic.
Melting point/freezing point	Not known.
Initial boiling point and boiling range	Not known.
Flammability	Not applicable.
Upper/lower flammability or explosive limits	Not known.
Flashpoint	Not known.
Auto-ignition temperature	Not known.
Decomposition temperature	Not known.
pH	Not known.
Kinematic viscosity	Not known.
Solubility	Not known.
Partition coefficient: n-octanol/water	Not known.
Vapour pressure	Not known.
Density (g/ml)	1.12g/cm ³
Relative vapour density	Not known.
Particle characteristics	Not known.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

**Gorilla Epoxy (Hardener)****SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Acute toxicity - Ingestion	Low oral toxicity.
Acute toxicity - Skin Contact	Low acute toxicity.
Acute toxicity - Inhalation	Low acute toxicity.
Skin corrosion/irritation	Causes skin irritation. No data.
Serious eye damage/irritation	Causes serious eye damage. No data.
Skin sensitization data	May cause an allergic skin reaction. No data.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenic effects.
Reproductive toxicity	No evidence of reproductive effects.
Lactation	Not classified.
STOT - single exposure	None anticipated.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.

11.2 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity - Aquatic invertebrates	Harmful to aquatic life with long lasting effects.
Toxicity - Fish	No data.
Toxicity - Algae	No data.
Toxicity - Sediment Compartment	No data.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and degradability

No information on this formulation.

12.3 Bioaccumulative potential

No information on this formulation.

12.4 Mobility in soil

No information on this formulation.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Endocrine Disrupting Properties

Not known.

12.7 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Dispose of empty containers and wastes safely. Do not reuse empty containers.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

**Gorilla Epoxy (Hardener)**

14.4 Packing group	Not applicable
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	Not classified as a Marine Pollutant.
14.7 Maritime transport in bulk according to IMO instruments	Not known

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed

REACH: ANNEX XIV list of substances subject to authorisation Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
Poly[oxy(methyl-1,2-ethanediyl)], α -hydro- ω -hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether (72244-98-5), 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine (25513-64-8), 1,4-diazabicyclooctane (280-57-9), 2,6-di-tert-butyl-p-cresol (128-37-0)
Community Rolling Action Plan (CoRAP)
2,6-di-tert-butyl-p-cresol (128-37-0)

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants Not listed

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals Not listed

Other

National regulations

Other

15.2 Chemical Safety Assessment

Not known.

A REACH chemical safety assessment has not been carried out.

A REACH chemical safety assessment has not been carried out.

A REACH chemical safety assessment has not been carried out.

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16

LEGEND

Hazard Pictogram(s)



GHS05



GHS07

GHS02: GHS: Flame
GHS09: GHS: Environment

Hazard classification

Flam. Sol. 1 : Flammable solid, Category 1
Acute Tox. 4 : Acute toxicity, Category 4
Skin Corr. 1A : Skin corrosion/irritation, Category 1A
Skin Irrit. 2 : Skin corrosion/irritation, Category 2
Skin Sens. 1A : Skin sensitization, Category 1A
Skin Sens. 1B : Skin sensitization, Category 1B
Eye Dam. 1 : Serious eye damage/irritation, Category 1
Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1
Aquatic Chronic 1 : Hazardous to the aquatic environment, Chronic, Category 1
Aquatic Chronic 3 : Hazardous to the aquatic environment, Chronic, Category 3

Hazard Statement(s)

H228: Flammable solid.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.

**Gorilla Epoxy (Hardener)**

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P261: Avoid breathing vapours.
P264: Wash hands and exposed skin 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/protective clothing/eye protection/face protection.
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.
P310: Immediately call a POISON CENTER/doctor.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P501: Dispose of contents in accordance with local, state or national legislation.

Acronyms

CAS : Chemical Abstracts Service
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EC : European Community
LTEL : Long term exposure limit
PBT : Persistent, Bioaccumulative and Toxic
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
vPvB : very Persistent and very Bioaccumulative

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Gorilla Glue Europe Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Gorilla Glue Europe Ltd accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

**Gorilla Epoxy (Resin)**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Product Name Gorilla Epoxy (Resin)
CAS No. Not applicable.
EC No. Not applicable.
REACH Registration No. Not known.
Unique Formula Identifier (UFI) N312-W00T-Q00C-KE5Q

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

Identified Use(s) Adhesives.
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer
Company Identification Gorilla Glue Europe Ltd
Address of Manufacturer 26 Eaton Avenue
Matrix Park
Buckshaw Village
Chorley
Lancashire
PR7 7NA
Postal code
Telephone: 01257 241 319
E-mail Eucustomercare@gorillaglu.com
Office hours 08:30 - 17:00
Supplier
Company Identification GG Brands Netherlands B.V.
Address of Supplier Lichttoren 32
5611 BJ
Eindhoven
+31 85 064 4029
E-mail Eucustomercare@gorillaglu.com
Office hours 08:30 - 17:00

1.4 Emergency telephone number

Supplier Contact: Stuart Shotton
Emergency Phone No. +44 (0)843 507 1200

Northern Ireland: NHS Direct
Emergency Phone No. +44 111 (24 hours)

Republic of Ireland: NPIC Ireland
Emergency Phone No. +353 (0) 1 809 2166 (8am - 10pm)

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) Skin Irrit. 2 :Causes skin irritation.
Skin Sens. 1 :May cause an allergic skin reaction.
Eye Irrit. 2 :Causes serious eye irritation.
Aquatic Chronic 2 :Toxic to aquatic life with long lasting effects.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)
Product Name Gorilla Epoxy (Resin)

Hazard Pictogram(s)



GHS07



GHS09

**Gorilla Epoxy (Resin)**

Signal Word(s)

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)

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P261: Avoid breathing vapours.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P501: Dispose of contents in accordance with local, state or national legislation.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
bis-[4-(2,3-epoxipropoxy)phenyl]propane	1675-54-3	216-823-5 01-2119456619-26-XXXX	<99	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Aquatic Chronic 2 H411	GHS07 GHS09
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8	219-784-2 01-2119513212-58-XXXX	<2	Eye Dam. 1 H318	GHS05
1-chloro-2,3-epoxypropane	106-89-8	203-439-8 01-2119457436-33-XXXX	<0.001	Flam. Liq. 3 H226 Acute Tox. 3 H301 Acute Tox. 3 H311 Skin Corr. 1B H314 Skin Sens. 1 H317 Acute Tox. 3 H331 Carc. 1B H350	GHS02 GHS06 GHS05 GHS08 GHS07
Methanol	67-56-1	200-659-6 01-2119433307-44-XXXX	<0.001	Flam. Liq. 2 H225 Acute Tox. 3 H301 Acute Tox. 3 H311 Acute Tox. 3 H331 STOT SE 1 H370	GHS02 GHS06 GHS08
bisphenol A	80-05-7	201-245-8 01-2119457856-23-XXXX	<0.001	Skin Sens. 1 H317 Eye Dam. 1 H318 STOT SE 3 H335 Repr. 1B H360F	GHS05 GHS08 GHS07

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Gorilla Epoxy (Resin)**

- Skin Contact** Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
- Eye Contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Ingestion** Wash out mouth with water. If symptoms develop, obtain medical attention.
- 4.2 Most important symptoms and effects, both acute and delayed**
Causes irritation to eyes and skin. May cause an allergic skin reaction.
- 4.3 Indication of any immediate medical attention and special treatment needed**
Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media**
Suitable Extinguishing media As appropriate for surrounding fire.
Unsuitable extinguishing media Do not use water jet.
- 5.2 Special hazards arising from the substance or mixture**
Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Halogenated compounds
- 5.3 Advice for firefighters**
Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Dike fire control water for later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Provide adequate ventilation. Avoid breathing vapours. Wear suitable protective clothing, gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace.
- 6.2 Environmental precautions**
Avoid release to the environment.
- 6.3 Methods and material for containment and cleaning up**
Adsorb spillages onto sand, earth or any suitable adsorbent material. Collect spillage. Transfer to a container for disposal.
- 6.4 Reference to other sections**
See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
If medical advice is needed, have product container or label at hand. Keep out of reach of children. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing vapours. Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke at the work place.
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep in a cool, dry, well ventilated place. Opened containers should be carefully resealed and stored in an upright position.
- Storage temperature** Ambient.
Storage life Stable under normal conditions.
Incompatible materials Strong oxidising agents, Acids, Alkalis, Amines
- 7.3 Specific end use(s)**
Adhesives.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
1-chloro-2,3-epoxypropane	106-89-8	0.5	1.9	1.5	5.8	Carc
Methanol	67-56-1	200	266	250	333	Sk
Methanol	67-56-1	200	260			IOELV, Skin



Gorilla Epoxy (Resin)

bisphenol A	80-05-7		2			
bisphenol A	80-05-7		2			IOELV, (8.1)

Region	Source
EU	EU Occupational Exposure Limits
United Kingdom	UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark	Notes
Carc	Capable of causing cancer and/or heritable genetic damage.
Sk	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.
IOELV	Indicative Occupational Exposure Limit Values.
Skin (8.1)	The possibility of significant uptake through the skin.
	Inhalable fraction.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment



Eye Protection

Wear protective eye glasses for protection against liquid splashes.



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer.



Respiratory protection

Wear suitable respiratory protection.



Thermal hazards

Not applicable.

8.2.3. Environmental Exposure Controls Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Clear
Odour	Not known.
Melting point/freezing point	Not known.
Initial boiling point and boiling range	Not known.
Flammability	Not known.
Upper/lower flammability or explosive limits	Not known.
Flashpoint	>94°C [Closed cup]
Auto-ignition temperature	Not known.
Decomposition temperature	Not known.
pH	Not known.
Kinematic viscosity	Not known.
Solubility	Solubility (Water) : Slightly soluble (bis-[4-(2,3-epoxipropoxy)phenyl]propane) Solubility (Other) : Not known.

**Gorilla Epoxy (Resin)**

Partition coefficient: n-octanol/water
Vapour pressure
Density (g/ml)
Relative vapour density
Particle characteristics

Log Pow 3.242@ 25°C (bis-[4-(2,3-epoxipropoxy)phenyl]propane)
Not known.
1.1-1.2g/cm³
Not known.
Not known.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Stable under normal conditions.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Strong oxidising agents, Acids, Alkalis, Amines

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Acute toxicity - Ingestion

Low oral toxicity.

bis-[4-(2,3-epoxipropoxy)phenyl]propane :

LD50 (oral, rat) mg/kg: >2000

Acute toxicity - Skin Contact

Low acute toxicity.

Acute toxicity - Inhalation

Low acute toxicity.

Skin corrosion/irritation

Causes skin irritation. No data.

Serious eye damage/irritation

Causes serious eye irritation. No data.

Skin sensitization data

May cause an allergic skin reaction. No data.

Respiratory sensitization data

Not classified.

Germ cell mutagenicity

There is no evidence of mutagenic potential.

Carcinogenicity

No evidence of carcinogenic effects.

Reproductive toxicity

No evidence of reproductive effects.

Lactation

Not classified.

STOT - single exposure

None anticipated.

STOT - repeated exposure

None anticipated.

Aspiration hazard

Not classified.

11.2 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity - Aquatic invertebrates

Toxic to aquatic life with long lasting effects.

bis-[4-(2,3-epoxipropoxy)phenyl]propane :

EC50 Acute (Daphnia magna) (48 hour) : 2.7mg/l

NOEC Chronic (Daphnia magna) (21 days) : 0.3mg/l

Toxicity - Fish

bis-[4-(2,3-epoxipropoxy)phenyl]propane :

LC50 Acute (Rainbow trout) (96 hour) : 1.5mg/l

Toxicity - Algae

bis-[4-(2,3-epoxipropoxy)phenyl]propane :

EC50 Acute (Green algae) (72 hour) : 9.4mg/l

Toxicity - Sediment Compartment

Not classified.

**Gorilla Epoxy (Resin)**

Toxicity - Terrestrial Compartment
12.2 Persistence and degradability

Not classified.

The product is not biodegradable.
bis-[4-(2,3-epoxipropoxy)phenyl]propane : Not readily biodegradable.

12.3 Bioaccumulative potential

The product has no potential for bioaccumulation.
bis-[4-(2,3-epoxipropoxy)phenyl]propane : Bioconcentration factor (BCF) : 31

12.4 Mobility in soil

The product is predicted to have moderate mobility in soil.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Endocrine Disrupting Properties

Not known.

12.7 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of empty containers and wastes safely. Do not reuse empty containers.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No. 3082

14.2 UN proper shipping name

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl]propane)

14.3 Transport hazard class(es)

ADR/RID

ADR/RID Class 9

ADR Classification Code M6

Special Provisions 274 335 375 601

Limited Quantities 5 L

Excepted Quantities E1

Emergency Action Code •3Z

Mixed Packing Instructions for Packages P001 IBC03 LP01 R001

Special Packing Provisions for Packages PP1

Mixed Packing Instructions for Packages MP19

Packing Instructions for Portable Tanks T4

Special Provisions for Portable Tanks TP1 TP29

Tank Code for Tanks LGBV

Vehicle for Tank Carriage AT

ADR Transport Category 3

Special Provisions for Carriage - Packages V12

Special Provisions for Carriage - Loading, CV13

Unloading and Handling

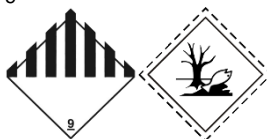
ADR HIN 90

IMDG 9

IMDG Class 9

**Gorilla Epoxy (Resin)**

Special Provisions	274 335 375 601
Limited Quantities	5 L
Excepted Quantities	E1
Mixed Packing Instructions for Packages	P001 IBC03 LP01 R001
Special Packing Provisions for Packages	PP1
Packing Instructions for Portable Tanks	T4
Special Provisions for Portable Tanks	TP1 TP29
IMDG EMS	F-A S-F
Stowage and Handling	Category A
ICAO/IATA	
IATA Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl]propane)
Excepted Quantities	E1
Passenger and Cargo Aircraft Limited	Y964
Quantities Packing Instructions	
Passenger and Cargo Aircraft Limited	30Kg G
Quantities Max net Qty	
Passenger and Cargo Aircraft Packing	964
Instructions	
Passenger and Cargo Aircraft Max net	450L
Qty	
Cargo Aircraft Packing Instructions	964
Cargo Aircraft Max net Qty	450L
Special Provisions	A97, A158 A197
Emergency Response Guidebook (ERG)	9L
Code	
Labels	
Labels	9

**14.4 Packing group**

Packing group

III

14.5 Environmental hazards

Environmental hazards

Classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user

Not known.

14.7 Maritime transport in bulk according to IMO instruments

No information available

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation

REACH: ANNEX XIV list of substances

subject to authorisation

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Community Rolling Action Plan (CoRAP)

bisphenol A (80-05-7)

Not listed

Carcinogens: category 1B (106-89-8), Toxic to reproduction: category 1B (80-05-7), bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3), [3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8), Methanol (67-56-1)

bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3), Methanol (67-56-1), bisphenol A (80-05-7)

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants

Not listed

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer

Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council

Not listed

**Gorilla Epoxy (Resin)**

concerning the export and import of
hazardous chemicals

National regulations

Other

15.2 Chemical Safety Assessment

Not known.

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

1-16

LEGEND

Hazard Pictogram(s)



GHS07



GHS09

GHS02: GHS: Flame
GHS05: GHS: Corrosion
GHS06: GHS: Skull and crossbones
GHS08: GHS: Health hazard

Hazard classification

Flam. Liq. 2 : Flammable liquid, Category 2
Flam. Liq. 3 : Flammable liquid, Category 3
Acute Tox. 3 : Acute toxicity, Category 3
Skin Corr. 1B : Skin corrosion/irritation, Category 1B
Skin Irrit. 2 : Skin corrosion/irritation, Category 2
Skin Sens. 1 : Skin sensitization, Category 1
Eye Dam. 1 : Serious eye damage/irritation, Category 1
Eye Irrit. 2 : Serious eye damage/irritation, Category 2
STOT SE 3 : Specific target organ toxicity — single exposure, Category 3
Carc. 1B : Carcinogenicity, Category 1B
Repr. 1B : Reproductive toxicity, Category 1B
STOT SE 1 : Specific target organ toxicity — single exposure, Category 1
Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2

Hazard Statement(s)

H225: Highly flammable liquid and vapour.
H226: Flammable liquid and vapour.
H301: Toxic if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.
H335: May cause respiratory irritation.
H350: May cause cancer.
H360F: May damage fertility.
H370: Causes damage to organs.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P261: Avoid breathing vapours.
P264: Wash hands and exposed skin 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/protective clothing/eye protection/face protection.
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.



Gorilla Epoxy (Resin)

P362+P364: Take off contaminated clothing and wash it before reuse.
P391: Collect spillage.
P501: Dispose of contents in accordance with local, state or national legislation.

Acronyms

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS : Chemical Abstracts Service
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EC : European Community
IATA : International Air Transport Association
IBC : Intermediate Bulk Container
ICAO : International Civil Aviation Organization
IMDG : International Maritime Dangerous Goods
LTEL : Long term exposure limit
PBT : Persistent, Bioaccumulative and Toxic
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
UN : United Nations
vPvB : very Persistent and very Bioaccumulative

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Gorilla Glue Europe Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Gorilla Glue Europe Ltd accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.