

**Gorilla Epoxy (Resin and Hardener)**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

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

Product Name	Gorilla Epoxy (Resin)
Contains:	Bis-[4-(2,3-epoxipropoxy)phenyl]propane
CAS No.	Not applicable.
EC No.	Not applicable.
REACH Registration No.	Not applicable.
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	PR7 7NA
Telephone:	01257 241 319
E-mail	Eucustomercare@gorillagluue.com
Office hours	08:30 - 17:00
Supplier	
Company Identification	GG Brands Netherlands B.V.
Address of Supplier	Lichttoren 32 5611 BJ Eindhoven
Telephone:	+31 85 064 4029
E-mail	Eucustomercare@gorillagluue.com
Office Hours	08:30 - 17:00

1.4 Emergency telephone number

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



Gorilla Epoxy (Resin and Hardener)

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

Product Name According to Regulation (EC) No. 1272/2008 (CLP)
Gorilla Epoxy (Resin)
Contains: Bis-[4-(2,3-epoxipropoxy)phenyl]propane
Hazard Pictogram(s)



GHS07



GHS09

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.
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.
N312-W00T-Q00C-KE5Q

Unique Formula Identifier (UFI)

2.3 Other hazards

This product contains: 80-05-7 (Endocrine disrupting properties)

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 Aquatic Chronic 3 H412	GHS05



Gorilla Epoxy (Resin and Hardener)

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 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS05 GHS08 GHS07 GHS09

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit		M-factor	ATE
Bis-[4-(2,3-epoxipropoxy)phenyl]propane	1675-54-3	Skin Irrit. 2	C>= 5.00 <= 100.00		
		Eye Irrit. 2	C>= 5.00 <= 100.00		
1-chloro-2,3-epoxypropane	106-89-8				Acute Tox. 3 (H301) : 100 Acute Tox. 3 (H311) : 300 Acute Tox. 3 (H331) : 3
Methanol	67-56-1	STOT SE 1	C>= 10.00 <= 100.00		Acute Tox. 3 (H301) : 100 Acute Tox. 3 (H311) : 300 Acute Tox. 3 (H331) : 3
		STOT SE 2	C>= 3.00 < 10.00		
bisphenol A	80-05-7			Aquatic Chronic 1: 10	

Contains no non-classified vPvB substances or substances with a Union workplace exposure limit.

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

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. If eye irritation persists: Get medical advice/attention.
Ingestion	Wash out mouth with water. If symptoms develop, obtain medical attention.



Gorilla Epoxy (Resin and Hardener)

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. 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

Absorb 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

Avoid breathing vapours. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. 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. If medical advice is needed, have product container or label at hand. Keep out of reach of children.

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



Gorilla Epoxy (Resin and Hardener)

7.3 Specific end use(s)

Adhesives.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 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 (Epichlorohydrin)	106-89-8	0.5	1.9	1.5	5.8	Carc
Methanol	67-56-1	200	266	250	333	Sk
Bisphenol A	80-05-7		2			

Region	Source
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.

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.

**Gorilla Epoxy (Resin and Hardener)****SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Physical state	Liquid.
Colour	Amber.
Odour	Odourless.
Melting point/freezing point	Not known.
Boiling point or initial boiling point and boiling range	Not known.
Flammability	Non-flammable.
Lower and upper explosion limit	Not known.
Flash Point	>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.
Partition coefficient n-octanol/water (log value)	Log Pow : 3.242 @ 25° C (Bis-[4-(2,3-epoxipropoxy)phenyl]propane)
Vapour pressure	Not known.
Density and/or relative density	Density (g/ml) : 1.1-1.2 g/cm ³
Relative vapour density	Not known.
Particle characteristics	Not applicable.

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.

**Gorilla Epoxy (Resin and Hardener)****SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity - Ingestion	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) - 5291005.5 Bis-[4-(2,3-epoxipropoxy)phenyl]propane : LD50 (oral,rat) mg/kg: >2000
Acute toxicity - Skin Contact	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) - 15873016 Bis-[4-(2,3-epoxipropoxy)phenyl]propane : LD50 (skin,rat) mg/kg: >2000
Acute toxicity - Inhalation	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) - 158730.16
Skin corrosion/irritation	Calculation method : Causes skin irritation. Bis-[4-(2,3-epoxipropoxy)phenyl]propane was slightly irritating to the skin in the key studies. Mean erythema and edema scores were 0.8 and 0.5, respectively.
Serious eye damage/irritation	Calculation method : Causes serious eye irritation. Bis-[4-(2,3-epoxipropoxy)phenyl]propane was slightly irritating to the eyes in the key studies. The mean eye score was 0.4.
Skin sensitization data	Calculation method : May cause an allergic skin reaction. Bis-[4-(2,3-epoxipropoxy)phenyl]propane : A NOEL for the mouse LLNA was observed with a test concentration of 3% DER-331. The concentration that would cause a 3-fold increase in proliferation (EC3) was calculated to be 5.7% which is consistent with moderate dermal sensitisation potential.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified. There is no evidence of mutagenic potential.
Carcinogenicity	Calculation method : Not classified. No evidence of carcinogenicity.
Reproductive toxicity	Calculation method : Not classified. No evidence of reproductive effects.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : Not classified.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Calculation method : Not classified.

11.2 Information on other hazards

Listed in: List I: Substances identified as endocrine disruptors at EU level 80-05-7 (Human health)

**Gorilla Epoxy (Resin and Hardener)****SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

	Toxic to aquatic life with long lasting effects.
Toxicity - Aquatic invertebrates	Bis-[4-(2,3-epoxipropoxy)phenyl]propane : EC50 Acute (Daphnia magna) (48 hour) : 2.7 mg/l NOEC Chronic (Daphnia magna) (21 days) : 0.3 mg/l
Toxicity - Fish	Bis-[4-(2,3-epoxipropoxy)phenyl]propane : LC50 Acute (Rainbow trout) (96 hour) : 1.5 mg/l
Toxicity - Algae	Bis-[4-(2,3-epoxipropoxy)phenyl]propane : EC50 Acute (Green algae) (72 hour) : 9.4 mg/l
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and degradability

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

Listed in: List I: Substances identified as endocrine disruptors at EU level 80-05-7 (Environment)

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 or ID 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)

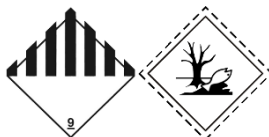


Gorilla Epoxy (Resin and Hardener)

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
Packing Instructions for Packages	P001 IBC03 LP01 R001
Special Packing Provisions for Packages	PP1
Mixed Packing Instructions for Packages	MP19
Instructions for Portable Tanks	T4
Special Provisions for Portable Tanks	TP1 TP29
Tank Code for Tanks	LGBV
Special Provisions for Tanks	
Vehicle for Tank Carriage	AT
ADR Transport Category	3
Tunnel Restriction Code	-
Special Provisions for Carriage - Packages	V12
Special Provisions for Carriage - Bulk	
Special Provisions for Carriage - Loading, Unloading and Handling	CV13
Special Provisions for Carriage - Operation	
ADR HIN	90
IMDG	
IMDG Class	9
Special Provisions	274 335 969
Limited Quantities	5 L
Excepted Quantities	E1
Mixed Packing Instructions for Packages	P001 LP01 IBC03
Special Packing Provisions for Packages	PP1
Instructions for Portable Tanks	T4
Special Provisions for Portable Tanks	TP1 TP29
IMDG EMS	F-A S-F
Stowage and Handling	Category A
Segregation	
Marine Pollutant	Classified as a Marine Pollutant.
ICAO/IATA	
ICAO/IATA Class	9
Excepted Quantities	E1

**Gorilla Epoxy (Resin and Hardener)**

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, A215
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 bisphenol A (80-05-7)

High Concern for Authorisation

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

REACH: Annex XVII Restrictions on the Bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3) - Entry 3, Entry 75
manufacture, placing on the market and [3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8) - Entry 3
use of certain dangerous substances, 1-chloro-2,3-epoxypropane (106-89-8) - Entry 3, Entry 40, Entry 75, Entry 28
mixtures and articles Methanol (67-56-1) - Entry 3, Entry 40, Entry 75, Entry 69
bisphenol A (80-05-7) - Entry 30, Entry 75, Entry 66

Community Rolling Action Plan (CoRAP) Bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3), Methanol (67-56-1),
bisphenol A (80-05-7)

Regulation (EU) N° 2019/1021 of the Not listed

European Parliament and of the Council
on persistent organic pollutants

**Gorilla Epoxy (Resin and Hardener)**

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

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

National regulations

Seveso Directive

Code E2: Lower Tier Quantity 200 - Upper Tier Quantity 500

Wassergefährdungsklasse (Germany)

WGK number 2 (obviously hazardous to water)

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

1-3, 9, 11-12, 14-16

LEGEND

Hazard Pictogram(s)



GHS07

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



GHS09

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 Acute 1 : Hazardous to the aquatic environment, Acute, Category 1
Aquatic Chronic 1 : Hazardous to the aquatic environment, Chronic, Category 1
Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2
Aquatic Chronic 3 : Hazardous to the aquatic environment, Chronic, Category 3

**Gorilla Epoxy (Resin and Hardener)**

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.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

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.
P321: Specific treatment (see on this label).
P332+P313: If skin irritation occurs: Get medical advice/attention.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P391: Collect spillage.
P501: Dispose of contents in accordance with local, state or national legislation.

Acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE : Acute Toxicity Estimate
CAS : Chemical Abstracts Service
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures



Gorilla Epoxy (Resin and Hardener)

DNEL : Derived No Effect Level

EC : European Community

EINECS : European Inventory of Existing Commercial Chemical Substances

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

PNEC : Predicted No Effect Concentration

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

Key literature references and sources
for data used to compile the SDS

Regulation (EC) No. 1272/2008 (CLP)

Training Advice

Regular safety training as appropriate

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 and Hardener)**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

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

Product Name	Gorilla Epoxy (Hardener)
Contains:	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine, 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
CAS No.	Not applicable.
EC No.	Not applicable.
REACH Registration No.	Not applicable.
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
Postal code	PR7 7NA
Telephone:	01257 241 319
E-mail	Eucustomercare@gorillagluue.com
Office hours	08:30 - 17:00
Supplier	
Company Identification	GG Brands Netherlands B.V.
Address of Supplier	Lichttoren 32 5611 BJ, Eindhoven
Telephone:	+31 85 064 4029
E-mail	Eucustomercare@gorillagluue.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 (24 hours)
Emergency Phone No.	+44 111

**Gorilla Epoxy (Resin and Hardener)**

Republic of Ireland:
Emergency Phone No.

NPIC Ireland
+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)
Contains: 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine, 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

Hazard Pictogram(s)



GHS05



GHS07

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.
Unique Formula Identifier (UFI) K2Y8-80AU-N00J-Y7A8

2.3 Other hazards

None known.

2.4 Additional Information

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



Gorilla Epoxy (Resin and Hardener)

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. 1 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

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit	M-factor	ATE
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	25513-64-8			Acute Tox. 4 (H302) : 500
1,4-diazabicyclooctane	280-57-9			Acute Tox. 4 (H302) : 500

Contains no non-classified vPvB substances.

Contains no non-classified substances with a Union workplace exposure limit.

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

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.



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Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/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 irritation to skin and severe damage to eyes. 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

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

Avoid breathing vapours. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. 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. If medical advice is needed, have product container or label at hand. Keep out of reach of children.

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.



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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

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (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
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



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 Light yellow.
Odour Characteristic.
Melting point/freezing point Not known.
Boiling point or initial boiling point and boiling range Not known.

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Flammability	Non-flammable.
Lower and upper explosion limit	Not known.
Flash Point	Not known.
Auto-ignition temperature	Not known.
Decomposition Temperature	Not known.
pH	Not known.
Kinematic Viscosity	Not known.
Solubility	Solubility (Water) : Not known. Solubility (Other) : Not known.
Partition coefficient n-octanol/water (log value)	Not known.
Vapour pressure	Not known.
Density and/or relative density	Density (g/ml) : 1.12 g/cm ³
Relative vapour density	Not known.
Particle characteristics	Not applicable.

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.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity - Ingestion	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) - 3191.22
Acute toxicity - Skin Contact	Calculation method : Not classified.
Acute toxicity - Inhalation	Calculation method : Not classified.
Skin corrosion/irritation	Self classification: Causes skin irritation. 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

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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.

Serious eye damage/irritation

Calculation method : Causes serious eye damage.

The acute eye irritation properties of 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine were estimated in a Draize test according to OECD TG 405. The undiluted substance produced serious injury immediately (corrosive effects, opalescence). 24 hours after treatment conjunctiva showed necrosis and the test was interrupted. Therefore, under the conditions of this test 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine is considered to be corrosive to eyes.

Skin sensitization data

Calculation method : May cause an allergic skin reaction.

The skin sensitising properties of 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine were conducted in a guinea pig maximization test according to OECD 406. Under the conditions of the test sensitising effects were observed in 16 of the 20 animals at 24 and 48 hours. Based on these results, 2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine should be classified as contact sensitiser.

Respiratory sensitization data

Calculation method : Not classified.

Germ cell mutagenicity

Calculation method : Not classified.

There is no evidence of mutagenic potential.

Carcinogenicity

Calculation method : Not classified.

No evidence of carcinogenicity.

Reproductive toxicity

Calculation method : Not classified.

No evidence of reproductive effects.

Lactation

Calculation method : Not classified.

STOT - single exposure

Calculation method : Not classified.

STOT - repeated exposure

Calculation method : Not classified.

Aspiration hazard

Calculation method : Not classified.

11.2 Information on other hazards

Not known.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Harmful to aquatic life with long lasting effects.

Toxicity - Aquatic invertebrates

No data.

Toxicity - Fish

No data.

Toxicity - Algae

No data.

Toxicity - Sediment Compartment

Not classified.

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.

**Gorilla Epoxy (Resin and Hardener)****12.5 Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

12.6 Endocrine disrupting properties

None 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 or ID number**

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Not known

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

subject to authorisation

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) - Entry 3

1,4-diazabicyclooctane (280-57-9) - Entry 40

Community Rolling Action Plan (CoRAP) 2,6-di-tert-butyl-p-cresol (128-37-0)

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Regulation (EU) N° 2019/1021 of the Not listed

European Parliament and of the Council

on persistent organic pollutants

Regulation (EC) N° 1005/2009 on Not listed

substances that deplete the ozone layer

Regulation (EU) N° 649/2012 of the Not listed

European Parliament and of the Council

concerning the export and import of

hazardous chemicals

National regulations

Seveso Directive

None known.

Wassergefährdungsklasse (Germany)

WGK number 2 (obviously hazardous to water)

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

1-2, 9, 11-12, 15-16

LEGEND

Hazard Pictogram(s)



GHS05

GHS02: GHS: Flame

GHS09: GHS: Environment



GHS07

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. 1 : Skin sensitization, Category 1

Skin Sens. 1A : Skin sensitization, Category 1A

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.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

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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)

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+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTRE/doctor.
P321: Specific treatment (see Medical Advice on this label).
P332+P313: If skin irritation occurs: Get medical advice/attention.
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

ATE : Acute Toxicity Estimate
CAS : Chemical Abstracts Service
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL : Derived No Effect Level
EC : European Community
EINECS : European Inventory of Existing Commercial Chemical Substances
LTEL : Long term exposure limit
PBT : Persistent, Bioaccumulative and Toxic
PNEC : Predicted No Effect Concentration
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
vPvB : very Persistent and very Bioaccumulative

Key literature references and sources
for data used to compile the SDS

Regulation (EC) No. 1272/2008 (CLP)

Training Advice

Regular safety training as appropriate

Disclaimers

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