



# SAFETY DATA SHEET – Gorilla Epoxy – Hardener

Date of Last Change: 05/12/2018

Version: 7.0

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

## 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**  
Product Name Gorilla Epoxy - Hardener.  
Synonym(s) Epoxy Hardener.  
CAS No. Mixture.  
EINECS No. Mixture.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Identified use(s) Epoxy.  
Uses advised against None known.
- 1.3 Details of the supplier of the Safety Data Sheet**  
Company Identification Gorilla Glue Europe Ltd.  
Chorley Business & Technology Centre  
East Terrace  
Euxton Lane  
Chorley PR7 6TE, United Kingdom.  
Telephone 01257 241319  
Fax 01257 273820  
E-mail eusales@gorillaglue.com
- 1.4 Emergency telephone number**  
National Poisons Information Service 111  
Emergency Phone No. +44 (0) 1257 241319 (During Business Hours)  
+1 651-603-3429 (Outside Business Hours)

## 2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**  
Regulation (EC) No. 1272/2008 (CLP) Eye Dam. 1; Causes serious eye damage.  
Skin Irrit. 2; Causes skin irritation.  
Skin Sens. 1; May cause an allergic skin reaction.  
Aquatic Chronic 3; Harmful to aquatic life with long lasting effects.
- 2.2 Label elements**  
Product Name According to Regulation (EC) No. 1272/2008 (CLP)  
Gorilla Epoxy - Hardener.  
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.



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Precautionary statement(s)

P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.  
 P362+P364: Take off contaminated clothing and wash it before reuse.

## 2.3 Other hazards

None known.

## 2.4 Additional Information

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

Note: Gorilla Epoxy contains trimethylhexane-1,6-diamine CAS No. 25620-58-0 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.

## 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Classification
Reaction products of a polyol of pentaerythritol and propylene oxide, epichlorohydrin and hydrogen sulfide	75-85	72244-98-5	615-735-8	01-2120118957-46-XXXX	Skin Sens. 1; H317, Aquatic Chronic 3; H412
Trimethylhexane-1,6-diamine	10-20	25620-58-0	247-134-8	None assigned	Skin Corr. 1B; H314, Acute Tox. 4; H302, Skin Sens. 1; H317, Aquatic Chronic 3; H412
1,4-diazabicyclooctane	1-5	280-57-9	205-999-9	01-2119980944-22-XXXX	Flam. Sol. 1; H228, Acute Tox. 4; H302, Skin Irrit. 2; H315, Eye Dam. 1; H318
2,6-di-tert-butyl-p-cresol	<1	128-37-0	204-881-4	01-2119480433-40-XXXX	Aquatic Chronic 1; H410

### 3.3 Additional Information

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



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## 4. SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Inhalation

Remove person to fresh air and keep comfortable for breathing.

Skin Contact

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. 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.

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

Skin Contact: Causes skin irritation. May produce an allergic reaction.

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

Eye Contact: Causes serious eye damage.  
Treat symptomatically.

## 5. SECTION 5: FIREFIGHTING MEASURES

Non-flammable. Non-explosive.

### 5.1 Extinguishing Media

Suitable Extinguishing Media

As appropriate for surrounding fire.

Unsuitable Extinguishing Media

None known.

### 5.2 Special hazards arising from the substance or mixture

May give off toxic fumes in a fire.

### 5.3 Advice for firefighters

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

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear suitable gloves and eye/face protection.

### 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. Transfer to a container for disposal.

### 6.4 Reference to other sections

See Also Section: 8, 13

## 7. SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Provide adequate ventilation. Avoid breathing vapours. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.



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## 7.2 Conditions for safe storage, including any incompatibilities

Storage Temperature: Ambient.  
 Storage Life: Stable under normal conditions.  
 Incompatible materials: None known.

## 7.3 Specific end use(s)

Epoxy.

## 8. 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 <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
2,6-di-tert-butyl-p-cresol	128-37-0		10			WEL, Sk

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

#### 8.1.2 Biological limit value

Not established.

#### 8.1.3 PNECs and DNELs

Not established.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Provide adequate ventilation.

#### 8.2.2 Personal protection equipment

Eye/face protection

Wear eye protection with side protection (EN166).



Skin protection (Hand protection/ Other)

Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection

Normally no personal respiratory protection is necessary.



Thermal hazards

Not applicable.

#### 8.2.3 Environmental Exposure Controls

Avoid release to the environment.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance: Liquid.  
 Colour: Clear to light yellow.  
 Odour: Characteristic.  
 Odour Threshold: Not established.  
 pH: Not available.  
 Melting Point/Freezing Point: Not available.  
 Initial boiling point and boiling range: Not available.



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Flash Point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.12 g/cm <sup>3</sup>
Solubility(ies)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	7000-9000 cps
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
<b>9.2 Other information</b>	None.

## 10. SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	No hazardous reactions known if used for its intended purpose.
<b>10.4 Conditions to avoid</b>	None known.
<b>10.5 Incompatible materials</b>	None known.
<b>10.6 Hazardous Decomposition Product(s)</b>	No hazardous decomposition products known.

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	
<b>Acute toxicity</b>	Low acute toxicity. Reaction products of a polyol of pentaerythritol and propylene oxide, epichlorohydrin and hydrogen sulfide: LD50 (rat) (oral) = 2600 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation. Gorilla Epoxy contains trimethylhexane-1,6-diamine CAS No. 25620-58-0 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.
<b>Serious eye damage/irritation</b>	Causes serious eye damage.
<b>Respiratory or skin sensitisation</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	Not classified.
<b>Reproductive toxicity</b>	None anticipated.
<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not classified.



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11.2 Other information None.

## 12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Harmful to aquatic life with long lasting effects.
12.2 Persistence and degradability	No information available.
12.3 Bioaccumulative potential	No information available.
12.4 Mobility in soil	No information available.
12.5 Results of PBT and vPvB assessment	No information available.
12.6 Other adverse effects	None.

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Dispose of wastes in an approved waste disposal facility.
13.2 Additional Information	Disposal should be in accordance with local, state or national legislation.

## 14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1 UN 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 applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

In quantities not to exceed 5kg/5L per single or inner packaging, marine pollutants are not subject to regulation by ground, air, or vessel. See 49 CFR 171.4©(2), IATA DGR Special Provision A197, MDG Code 2.10.2.7 and ADR 5.2.1.8.1.

## 15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1 EU regulations	
Authorisations and/or restrictions on use	
Candidate List of Substances of Very High Concern for Authorisation	All chemicals are not listed.
REACH: ANNEX XIV list of substances subject to authorisation	All chemicals are not listed.
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Listed: 1,4-diazabicyclooctane (CAS No.: 280-57-9)
Community Rolling Action Plan (CoRAP)	Listed: 2,6-di-tert-butyl-p-cresol (CAS No.: 128-37-0)
15.1.2 National regulations	None known.
15.2 Chemical Safety Assessment	Not applicable.





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## 16. SECTION 16: OTHER INFORMATION

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

### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Eye Dam. 1	Serious eye damage/irritation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Acute Tox. 4	Acute toxicity Category 4
Skin Sens. 1	Respiratory/skin sensitisation Category 1
Flam. Sol. 1	Flammable solid, 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) and Precautionary 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.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P264	Wash hands and exposed skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents in accordance with local, state or national legislation.

### Disclaimers

The information presented in this Safety Data Sheet was prepared by qualified personnel and to the best of our knowledge is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser will independently determine the suitability of the product for this purpose. This data does not constitute a warranty, expressed or implied, statutory or otherwise, nor is it representation for which The Gorilla Glue Company assumes legal responsibility. The data is submitted for the user's information and consideration only. Any use of this product must be determined by the user to be in accordance with applicable federal, state, provincial and local laws and regulations.

### Annex to the extended Safety Data Sheet (eSDS)

Not applicable.