



# SAFETY DATA SHEET – Gorilla Glue

Date of Last Change: 05/12/2018



Version: 4.0

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 Glue.  
Synonym(s) Polyurethane Adhesive.  
CAS No. Mixture.  
EINECS No. Mixture.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Identified use(s) Consumer Adhesives for building, carpentry, or hobby projects.  
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@gorillagluce.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) Skin Irrit. 2; Causes skin irritation.  
Eye Irrit. 2; Causes serious eye irritation.  
Skin Sens. 1; May cause an allergic skin reaction.  
Resp. Sens. 1; May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Acute Tox. 4; Harmful if inhaled.  
Carc. 2; Suspected of causing cancer.  
STOT SE 3; May cause respiratory irritation.  
STOT RE 2; May cause damage to organs through prolonged or repeated exposure.  
According to Regulation (EC) No. 1272/2008 (CLP)  
Gorilla Glue.
- 2.2 Label elements**  
Product Name  
Hazard pictogram(s)  
Signal word(s)
-    
GHS07 GHS08  
Danger.



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Hazardous Ingredient(s)

Aromatic polyisocyanate, Isocyanic acid, polymethylene polyphenylene ester, 4,4'-Methylenediphenyl diisocyanate, Benzene, 1,1'-methylenebis(isocyanato-

Hazard statement(s)

H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction.  
 H319: Causes serious eye irritation.  
 H332: Harmful if inhaled.  
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335: May cause respiratory irritation.  
 H351: Suspected of causing cancer.  
 H373: May cause damage to organs through prolonged or repeated exposure.  
 EUH204: Contains isocyanates. May produce an allergic reaction.

Precautionary statement(s)

P102: Keep out of reach of children.  
 P260: Do not breathe mist/vapours/spray.  
 P280: Wear protective gloves/protective clothing/eye protection/ respiratory protection.  
 P302+P352: IF ON SKIN: Wash with plenty of water.  
 P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P501: Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3 Other hazards

None.

2.4 Additional Information

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

## 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.	EC INDEX No.	Classification
Isocyanic acid, polymethylene polyphenylene ester polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol	40-70	67815-87-6	None assigned	None assigned	Skin Sens. 1; H317, Resp. Sens. 1; H334, Skin Irrit. 2; H315, Eye Irrit. 2; H319, Acute Tox. 4; H332, STOT SE 3; H335, STOT RE 2; H373
4,4'-Methylenediphenyl diisocyanate	10-30	101-68-8	202-966-0	615-005-00-9	Acute Tox. 4; H332, Skin Irrit. 2; H315, Eye Irrit. 2; H319, Skin Sens. 1; H317, STOT SE 3; H335, Resp. Sens. 1; H334, Carc. 2; H351, STOT RE 2; H373



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					Specific Concentration Limits (C >= 0,1) Resp. Sens. 1; H334, (C >= 5) Eye Irrit. 2; H319, (C >= 5) Skin Irrit. 2; H315, (C >= 5) STOT SE 3; H335
Isocyanic acid, polymethylene polyphenylene ester	10-22	9016-87-9	618-498-9	None assigned	Acute Tox. 2; H330, Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335, Resp. Sens. 1; H334, STOT RE 2; H373
Benzene, 1,1'-methylenebisocyanato-	1-3	26447-40-5	247-714-0	615-005-00-9	Acute Tox. 4; H332, Skin Irrit. 2; H315, Eye Irrit. 2; H319, Skin Sens. 1; H317, STOT SE 3; H335, Resp. Sens. 1; H334, Carc. 2; H351, STOT RE 2; H373 Specific Concentration Limits (C >= 0,1) Resp. Sens. 1; H334, (C >= 5) Eye Irrit. 2; H319, (C >= 5) Skin Irrit. 2; H315, (C >= 5) STOT SE 3; H335

### 3.3 Additional Information

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

## 4. SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

General information

Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. (show the label if possible).

Inhalation

Using proper respiratory protection, immediately move the exposed person to fresh air. Get medical attention immediately.

Skin Contact

Remove contaminated clothing. Gently wash with plenty of soap and water. Continue to wash the affected area for at least 15 minutes. Call a POISON CENTER/doctor if you feel unwell. Wash contaminated clothing before reuse.

Eye Contact

Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Ingestion

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

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

Eye Contact: Causes serious eye irritation.



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

Inhalation: Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Ingestion: Likely to be harmful or have adverse effects.

Chronic Symptoms: May cause damage to organs through prolonged or repeated exposure. Suspected of causing cancer.

If medical advice is needed, have product container or label at hand.

## 5. SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing Media

Suitable Extinguishing Media

Small fire: Foam, CO<sub>2</sub> or dry powder.

Large fire: Alcohol-resistant foams.

If water is used, it should be used in very large quantities and from a safe distance.

Unsuitable Extinguishing Media

Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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

Non-flammable. Non-explosive.

The reaction between water and isocyanate may be vigorous. Exothermic reaction with amines and alcohols; reacts with water forming heat, CO<sub>2</sub>, and insoluble polyurea.

The combined effects of CO<sub>2</sub> and heat can produce enough pressure to rupture a closed container.

#### 5.3 Advice for firefighters

Exercise caution when fighting any chemical fire. Do not allow runoff to enter drains, sewers or watercourses. Evacuate area. Do not reseal contaminated containers; a chemical reaction generating CO<sub>2</sub> gas pressure may occur resulting in rupture of the container. Dense smoke is emitted when product is burned without sufficient oxygen. When using water spray, boil-over may occur when product temperature reaches the boiling point of water, and the reaction forming CO<sub>2</sub> will accelerate. Fire fighters should wear proper protective clothing including respiratory protection.

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Avoid contact with skin, eyes or clothing. Avoid breathing vapours. Ensure adequate ventilation. Evacuate if necessary. Stop leak if safe to do so. Ensure suitable personal protection during removal of spillages.

#### 6.2 Environmental precautions

Avoid run off to waterways and sewers.

#### 6.3 Methods and material for containment and cleaning up

Clean up spill immediately. Cover spills with inert absorbent material. Remove mechanically but cautiously as this process can generate heat. Absorb remaining liquid in sand or inert absorbent and remove to safe place. After 15 minutes, transfer to waste container and do not seal (evolution of CO<sub>2</sub>). Keep damp in a safe ventilated area for several days. Dispose of empty containers and wastes safely.

#### 6.4 Reference to other sections

See Also Section: 8, 13



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## 7. SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** General hygiene measures for the handling of chemicals are applicable. Wash (hands and exposed skin) thoroughly after handling. Do not eat, drink or smoke when using this product.
- 7.2 Conditions for safe storage, including any incompatibilities** Store in a cool/low-temperature, well-ventilated (dry) place. Keep away from: heat and alcohols, amines or other materials that react with isocyanates. Keep out of reach of children and animals. Keep container closed when not in use. Store locked up.
- Storage Temperature: Ambient.  
 Storage Life: Stable under normal conditions.  
 Incompatible materials: Acids, Alkalis, Strong oxidising agents, Amines, Alcohols.
- 7.3 Specific end use(s)** Consumer Adhesives for building, carpentry, or hobby projects.

## 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
Isocyanic acid, polymethylene polyphenylene ester polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol	67815-87-6					None assigned
4,4'-Methylenediphenyl diisocyanate	101-68-8					None assigned
Isocyanic acid, polymethylene polyphenylene ester	9016-87-9					None assigned
Benzene, 1,1'-methylenebis(isocyanato-	26447-40-5					None assigned

- 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 to ensure that the occupational exposure limit is not exceeded. Guarantee that the eye flushing systems and safety showers are located close to the working place.
- 8.2.2 Personal protection equipment**  
 Eye/face protection: Wear protective eyewear (goggles, face shield, or safety glasses).





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Skin protection (Hand protection/ Other)



Wear protective clothing and gloves: Chemically resistant materials and fabrics.

Respiratory protection



Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.

Thermal hazards

Not applicable.

## 8.2.3 Environmental Exposure Controls

Avoid run off to waterways and sewers.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Brown.
Odour	Earthy, Musty.
Odour Threshold	No data.
pH	Not applicable.
Melting Point/Freezing Point	No data.
Initial boiling point and boiling range	208°C (406,40°F)
Flash Point	> 93°C (199,4°F) [Closed cup]
Evaporation rate	No data.
Flammability (solid, gas)	No data.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	< 0,0001 mm Hg @ 25°C (Isocyanates)
Vapour density	No data.
Relative density	1,14 (Water = 1)
Density (g/cm <sup>3</sup> )	1,14 @ 20°C
Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol/water	No data.
Auto-ignition temperature	No data.
Decomposition Temperature	No data.
Viscosity	4000 – 7000 mPa•s @ 25°C
Explosive properties	No data.
Oxidising properties	No data.

### 9.2 Other information

None.

## 10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Exothermic reaction with amines and alcohols; reacts with water forming heat, CO <sub>2</sub> , and insoluble polyurea.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Hazardous polymerisation will not occur. No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid	Keep away from heat, sources of ignition and direct sunlight. Protect from freezing.
10.5 Incompatible materials	Acids, Alkalis, Strong oxidising agents, Amines, Alcohols.
10.6 Hazardous Decomposition Product(s)	Oxides of carbon, MDI vapour, Nitrogen compounds, Cyanides, Isocyanates.



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## 11. SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Oral

Dermal

Inhalation

Harmful if inhaled.

ATE (CLP) (4 hour(s)) = 1500 mg/l

Benzene, 1,1'-methylenebisisocyanato-:

LD50 (rat) = > 7400 mg/kg

Benzene, 1,1'-methylenebisisocyanato-:

LD50 (rabbit) = > 6200 mg/kg

Isocyanic acid, polymethylene polyphenylene ester:

LC50 (rat) (4 hour(s)) = 490 mg/m<sup>3</sup>

Benzene, 1,1'-methylenebisisocyanato-:

LC50 (rat) (4 hour(s)) = 0.369 mg/m<sup>3</sup>

Original Gorilla Glue is composed of both 4,4'-Methylenediphenyl diisocyanate (MDI) and Isocyanic acid, polymethylene polyphenylene ester (PMDI). However, product data has demonstrated that, during consumer use, airborne concentrations of MDI/PMDI were nondetectable. Based on this data, Original Gorilla Glue does not warrant an acute inhalation hazard classification.

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

#### Germ cell mutagenicity

Not classified.

#### Carcinogenicity

Suspected of causing cancer.

#### Reproductive toxicity

Not classified.

#### STOT - single exposure

May cause respiratory irritation.

#### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

Not classified.

### 11.2 Other information

None.

## 12. SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Low toxicity to aquatic organisms.

Benzene, 1,1'-methylenebisisocyanato-:

NOEC(Acute)(14 days) =  $\geq$  1000 mg/kg.

### 12.2 Persistence and degradability

Biodegradation (0% @ 28 days).

### 12.3 Bioaccumulative potential

The product has no potential for bioaccumulation.

Benzene, 1,1'-methylenebisisocyanato-:

Bioconcentration factor (BCF)(Fish) = 3 – 14.

### 12.4 Mobility in soil

Insoluble in water. The product is predicted to have low mobility in soil.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

Avoid release to the environment.

## 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.



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### 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.

### 15. SECTION 15: REGULATORY INFORMATION

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
15.1.1	<b>EU regulations</b>	
	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	Gorilla Glue 4,4'-Methylenediphenyl diisocyanate (CAS No.: 101-68-8) 56. Methylenediphenyl diisocyanate (MDI) 56.a.Methylenediphenyl diisocyanate (MDI) isomers: 4,4'-Methylenediphenyl diisocyanate
	Community Rolling Action Plan (CoRAP)	All chemicals are not listed.
15.1.2	<b>National regulations</b>	None known.
15.2	<b>Chemical Safety Assessment</b>	Not applicable.

### 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 3, 15

#### 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
Eye Irrit. 2	Serious eye damage/irritation Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Acute Tox. 2	Acute toxicity Category 2
Acute Tox. 4	Acute toxicity Category 4
Skin Sens. 1	Respiratory/skin sensitisation Category 1
Resp. Sens. 1	Respiratory/skin sensitisation Category 1
Carc. 2	Carcinogenicity Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3
STOT RE 2	Specific target organ toxicity — repeated exposure Category 2





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### Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

### 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.