

#### **Gorilla Glue**

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 Glue
CAS No. Not applicable.
EC No. Not applicable.
REACH Registration No. Not known.

Unique Formula Identifier (UFI) 46K2-M0CT-N00U-7C4J

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

Identified Use(s) Adhesives.

Uses Advised Against Consumer spray application is not supported.

Consumer applications that require heating above room temperature before or

during use are not supported.

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

Postal code PR7 7NA
Telephone: 01257 241 319
Fax Not known.

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

Telephone +31 85 064 4029
E-mail Eucustomercare@gorillaglue.com

Office hours 08:30 - 17:00

1.4 Emergency telephone number

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

National response centre

Address NHS Direct Emergency Phone No. +44 111

# 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. Acute Tox. 4 :Harmful if inhaled.

Resp. Sens. 1: May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

STOT SE 3 :May cause respiratory irritation. Carc. 2 :Suspected of causing cancer.

STOT RE 2: May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

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

Product Name Gorilla Glue

Hazard Pictogram(s)





GORILLA S

Date of Issue: 04-10-2021 Date of Revision: 30-11-2022

# **Gorilla Glue**

GHS08 GHS07

Signal Word(s) Danger

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) P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P201: Obtain special instructions before use.

P260: Do not breathe vapour.

P280: Wear protective gloves/protective clothing/eye protection/face protection. 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. P308+P313: IF exposed or concerned: Get medical advice/attention.

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)
Prepolymer based on aromatic polyisocyanate	67815-87-6	642-899-8	30-50	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Acute Tox. 4 H332 Resp. Sens. 1 H334 STOT SE 3 H335 STOT RE 2 H373	GHS08 GHS07
4,4'-methylenediphenyl diisocyanate	101-68-8	202-966-0 01-2119457014- 47-XXXX	25-50	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Acute Tox. 4 H332 Resp. Sens. 1 H334 STOT SE 3 H335 Carc. 2 H351 STOT RE 2 H373	GHS08 GHS07
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	618-498-9	10-20	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Acute Tox. 4 H332 Resp. Sens. 1 H334 STOT SE 3 H335 Carc. 2 H351 STOT RE 2 H373	GHS08 GHS07
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1	227-534-9 01-2119480143- 45-XXXX	5-10	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Acute Tox. 4 H332 Resp. Sens. 1 H334 STOT SE 3 H335	GHS08 GHS07

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				Carc. 2 H351 STOT RE 2 H373	
2,2'-methylenediphenyl diisocyanate	2536-05-2	219-799-4 01-2119927323- 43-XXXX	0.1-1	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319 Acute Tox. 4 H332 Resp. Sens. 1 H334 STOT SE 3 H335 Carc. 2 H351 STOT RE 2 H373	GHS08 GHS07
Isophthaloyl dichloride	99-63-8	202-774-7 01-2119493993- 19-XXXX	0.1-1	Acute Tox. 4 H312 Skin Corr. 1A H314 Eye Dam. 1 H318 Acute Tox. 3 H331	GHS06 GHS05 GHS07

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit	M-factor	ATE
Prepolymer based on aromatic polyisocyanate	67815-87-6			Acute Tox. 4 (H332) : 11.000
4,4'-methylenediphenyl diisocyanate	101-68-8	Skin Irrit. 2		Acute Tox. 4 (H332): 11.000
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9			Acute Tox. 4 (H332): 11.000
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1	Skin Irrit. 2		Acute Tox. 4 (H332): 11.000
2,2'-methylenediphenyl diisocyanate	2536-05-2	Skin Irrit. 2		Acute Tox. 4 (H332): 11.000
Isophthaloyl dichloride	99-63-8			Acute Tox. 4 (H312): 1100.000 Acute Tox. 3 (H331): 3.000

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 Remove person to fresh air and keep comfortable for breathing. If experiencing

respiratory symptoms: Call a POISON CENTRE/doctor.

Skin Contact Take off contaminated clothing and wash it before reuse. 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. Get medical advice/attention if you feel unwell. If

eye irritation persists: Get medical advice/attention.

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

 $\mathbf{4.2}^{\circ}$  Most important symptoms and effects, both acute and delayed

Harmful if inhaled. 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 Extinguish with carbon dioxide, dry chemical, foam or waterspray.

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Unsuitable extinguishing media Do not use water iet.

5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide,

Oxides of nitrogen, Isocyanate vapour, Hydrogen cyanide

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained

breathing apparatus.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Provide adequate ventilation. Ensure full personal protection (including respiratory protection) during removal of spillages. Contaminated work clothing should not be allowed out of the workplace. Do not breathe vapour. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed

skin thoroughly after handling.

6.2 Environmental precautions

Do not allow to enter drains, sewers or watercourses.

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.

# SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin and eyes. Do not breathe vapour. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. Wash hands and exposed skin thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Storage temperature

Stable under normal conditions. Storage life

Incompatible materials Acids, Alkalis, Strong oxidising agents, Amines, Alcohols

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	LTEL (8 hr TWA	STEL (ppm)	STEL (mg/m³)	Note
		ppm)	mg/m³)			
4,4'-methylenediphenyl	101-68-8		0.02		0.07	Sen
diisocyanate						

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

Remark Notes

Capable of causing occupational asthma.

Biological Exposure Indices						
Substances	CAS Number	Sampling		parameters	Biological monitoring guidance value	Comments
Isocyanates (applies to HDI, IPDI, TDI and MDI)		derived diamine/mol	At the end of the period of exposure			
Isocyanates (applies to HDI, IPDI, TDI and MDI)		, ,	At the end of the period of exposure			



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Isocyanates (applies to HDI, IPDI, TDI and MDI)	2536-05-2	1 µmol isocyanate- derived diamine/mol	At the end of the period of		
		creatinine in urine	exposure		

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use with ventilation, local exhaust ventilation or breathing protection. A washing

facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

Eye Protection Wear eye protection with side protection (EN166).

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

When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN374) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according

to EN374) is recommended.

Recommended: Butyl rubber, Nitrile rubber, Neoprene.

thickness of coating: >0.35mm

Respiratory protection Wear suitable respiratory protective equipment if exposure to levels above the

occupational exposure limit is likely.

Handling of larger amounts : A suitable mask with filter type A (EN14387 or EN405)

may be appropriate.

Thermal hazards Not applicable.

8.2.3. Environmental Exposure Controls Do not allow to enter drains, sewers or watercourses.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Liquid.
Colour Dark brown.
Odour Musty .
Melting point/freezing point 0°C

Boiling point or initial boiling point and 208°C @ 1.013hPa

boiling range Flammability

Flammability

Lower and upper explosion limit
Flash Point
Flash Fl

Kinematic Viscosity

Not known.

Solubility (Water): Immiscible with water. Solubility (Other): Not known.

Partition coefficient n-octanol/water (log Not known.

value)

Vapour pressure Not known.

Density and/or relative density Density (g/ml): 1.14g/cm³ @ 20°C

Relative vapour density

Particle characteristics

Not known.

Not known.

9.2 Other information

None.

# SECTION 10: STABILITY AND REACTIVITY

# 10.1 Reactivity

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Stable under normal conditions.

10.2 Chemical Stability Polymerises at about 200 °C with evolution of CO2.

10.3 Possibility of hazardous reactions

Exothermic reaction with amines and alcohols. Reacts with water forming carbon

dioxide.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Acids, Alkalis, Strong oxidising agents, Amines, Alcohols

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 Not classified. Acute toxicity - Skin Contact Not classified.

Calculated acute toxicity estimate (ATE) Calc ATE - 122222.22000

Acute toxicity - Inhalation Harmful if inhaled. No data.

Calculated acute toxicity estimate (ATE) Calc ATE - 10.74000

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.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. No data. Respiratory sensitization data

Germ cell mutagenicity Not classified.

Suspected of causing cancer. No data. Carcinogenicity

Not classified. Reproductive toxicity Lactation Not classified

STOT - single exposure May cause respiratory irritation. No data.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure. No data.

Aspiration hazard Not classified

11.2 Information on other hazards

Not known.

11.2.1 Endocrine disrupting properties None known.

11.2.2 Other information

None known.

#### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Toxicity - Aquatic invertebrates Low toxicity to invertebrates.

Toxicity - Fish Low toxicity to fish. Low toxicity to algae. Toxicity - Algae Toxicity - Sediment Compartment Not classified. Toxicity - Terrestrial Compartment Not classified.

12.2 Persistence and degradability

Part of the components is not biodegradable.

12.3 Bioaccumulative potential

The product has no potential for bioaccumulation.

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Endocrine disrupting properties

None known.

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#### 12.7 Other adverse effects

Isocyanate reacts with water at the interface forming CO2 and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents. Previous experience shows that polyurea is inert and non-degradable.

#### 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.

# 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 Not listed

Candidate List of Substances of Very

High Concern for Authorisation

REACH: ANNEX XIV list of substances 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

Community Rolling Action Plan (CoRAP) Regulation (EU) N° 2019/1021 of the

European Parliament and of the Council on persistent organic pollutants

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Regulation (EU) N° 649/2012 of the

European Parliament and of the Council concerning the export and import of hazardous chemicals

**National regulations** 

Wassergefährdungsklasse (Germany) 15.2 Chemical Safety Assessment

4,4'-Methylenediphenyl diisocyanate (101-68-8), 2,4'-Methylenediphenyl diisocyanate (5873-54-1), 2,2'-Methylenediphenyl diisocyanate (2536-05-2),

Prepolymer based on aromatic polyisocyanate (67815-87-6), Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9), Isophthaloyl dichloride (99-63-8)

4,4'-methylenediphenyl diisocyanate (101-68-8) Not listed

Not listed Not listed

WGK number : 1(Low hazard to water)

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** 

#### **Gorilla Glue**

#### Hazard Pictogram(s)





GHS05: GHS: Corrosion

GHS06: GHS: Skull and crossbones

Hazard classification

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

Eye Dam. 1: Serious eye damage/irritation, Category 1 Eye Irrit. 2 : Serious eye damage/irritation, Category 2

Acute Tox. 3: Acute toxicity, Category 3

Resp. Sens. 1: Respiratory sensitization, Category 1

STOT SE 3: Specific target organ toxicity — single exposure, Category 3

Carc. 2: Carcinogenicity, Category 2

STOT RE 2 : Specific target organ toxicity — repeated exposure, Category 2

Hazard Statement(s)

H312: Harmful 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.

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)

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe vapour.

P261: Avoid breathing vapours.

P264: Wash hands and exposed skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P284: In case of inadequate ventilation wear 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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313: IF exposed or concerned: Get medical advice/attention.

P312: Call a POISON CENTRE/doctor if you feel unwell.

P314: Get medical advice/attention if you feel unwell.

P332+P313: If skin irritation occurs: Get medical advice/attention.

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

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P337+P313: If eye irritation persists: Get medical advice/attention.

P342+P311: If experiencing respiratory symptoms: Call a POISON CENTRE/doctor.

P362+P364: Take off contaminated clothing and wash it before reuse. P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national legislation.

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 Regulation (EC) No. 1272/2008 (CLP) data used to compile the SDS

Disclaimers

Acronyms

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