Gorilla Glue

ACCORDING TO WORK HEALTH AND SAFETY (WHS) REGULATIONS

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

1.1 Product identifier

Product Name	Gorilla Glue

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	The Gorilla Glue Company 2101 E. Kemper Road Cincinnati, OH 45241 US www.gorillaglue.com.au/
Supplier	
Company Identification	Gorilla Glue Australia Pty Ltd.
Address of Supplier	Suite 101, 5 Nexus Court Mulgrave, Australia
Postal code	VIC 3170
Telephone:	1800 201 480

1.4 Emergency telephone number

Emergency Phone No.	13 11 26
Australia	1300 360 211

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

In accordance to GHS as implemented under WHS Regulations	Skin Irrit. 2 :Causes skin irritation. Skin Sens. 1 :May cause an allergic skin reaction. Eye Irrit. 2A :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

In accordance to GHS as implemented under WHS Regulations

Product Name	Gorilla Glue
Hazard Pictogram(s)	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.
Precautionary Statement(s)	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children.

Gorilla Glue

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

Contains isocyanates. May produce an allergic reaction.

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.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Prepolymer based on aromatic polyisocyanate	67815-87-6	30-50	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2A 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	25-50	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2A 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	10-20	Skin Irrit. 2 H315 Eye Irrit. 2A H319 Acute Tox. 2 H330 Resp. Sens. 1 H334 STOT SE 3 H335 STOT RE 2 H373	GHS06 GHS08 GHS07
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1	5-10	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2A H319 Acute Tox. 4 H332 Resp. Sens. 1 H334 STOT SE 3 H335 Carc. 2 H351 STOT RE 2 H373	GHS08 GHS07
2,2'-methylenediphenyl diisocyanate	2536-05-2	0.1-1	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2A 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	0.1-1	Acute Tox. 4 H312 Skin Corr. 1A H314 Eye Dam. 1 H318 Acute Tox. 3 H331	GHS06 GHS05 GHS07

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

SECTION 4: FIRST AID MEASURES

Gorilla Glue

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

4.2 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

IF exposed or concerned: Get medical advice/attention.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media	Extinguish with carbon dioxide, dry chemical, foam or waterspray.
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, 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. Keep out of reach of children.

Storage temperature	Ambient.
Storage life	Stable under normal conditions.
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

Gorilla Glue

8.1.1 Occupational Exposure Limits

WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS						
SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Isocyanates, all (as-NCO) (Hexamethylene diisocyanate)	101-68-8		0.02		0.07	Sen
Methylene bisphenyl isocyanate (MDI)	101-68-8		0.02		0.07	Sen, Carc. 2

Region	Source
Australia	Workplace Exposure Standards For Airborne Contaminants, 2019, Australia

Remark	Notes
Sen	Some substances are known to cause sensitisation and create greater risks to sensitised workers. Sensitised workers may also react to levels of the substance below the exposure standard and should not be exposed further to the substance.
Carc. 2	Carcinogenicity Category 2 – Suspected human carcinogen.

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 protective eye glasses for protection against liquid splashes.

Skin protection: Wear protective clothing and gloves: Impervious gloves.
Recommended: Butyl rubber, Nitrile rubber, Neoprene.
thickness of coating : >0.35mm
EU : 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.

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 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 boiling range	208°C @ 1.013hPa
Flammability	Non-flammable.
Lower and upper explosion limit	Not known.
Flash Point	>205°C
Auto-ignition temperature	Not known.
Decomposition Temperature	Not known.
pH	Not known.
Kinematic Viscosity	Not known.
Solubility	Solubility (Water) : Immiscible with water. Solubility (Other) : Not known.
Partition coefficient n-octanol/water (log value)	Not known.

Gorilla Glue

Vapour pressure	Not known.
Density and/or relative density	Density (g/ml) : 1.14g/cm³ @ 20°C
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

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 toxicological effects

Acute toxicity - Ingestion	Not classified.
Acute toxicity - Skin Contact	Not classified. Calculated acute toxicity estimate (ATE): 1000000.00000
Acute toxicity - Inhalation	Harmful if inhaled. Calculated acute toxicity estimate (ATE): 10.97000
Skin corrosion/irritation	Causes skin irritation. No data.
Serious eye damage/irritation	Causes serious eye irritation. No data.
Skin sensitization data	May cause an allergic skin reaction. No data.
Respiratory sensitization data	May cause allergy or asthma symptoms or breathing difficulties if inhaled. No data.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Suspected of causing cancer. No data.
Reproductive toxicity	Not classified.
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 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to 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 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.

Gorilla Glue

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

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 Transport in bulk according to Annex II of Marpol and the IBC Code

Not known

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

AICS (Australian Inventory of Chemical Substances)	Listed : 67815-87-6, 101-68-8, 9016-87-9, 5873-54-1, 2536-05-2, 99-63-8
IMAP (Inventory Multi-Tiered Assessment and Prioritisation) – Stage One chemicals	101-68-8, 9016-87-9, 5873-54-1, 2536-05-2
List of PECs (Priority Existing Chemicals)	Not listed
NPI (National Pollutant Inventory)	101-68-8
Schedule 10 of WHS Regulations – Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals	Not listed

SECTION 16: OTHER INFORMATION

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

LEGEND

Hazard Pictogram(s)

GHS08

GHS07

GHS05: GHS: Corrosion
GHS06: GHS: Skull and crossbones

Hazard classification

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. 2A : Serious eye damage/irritation, Category 2A
Acute Tox. 2 : Acute toxicity, Category 2
Acute Tox. 3 : Acute toxicity, Category 3
Acute Tox. 4 : Acute toxicity, Category 4
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

Gorilla Glue

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. H330: Fatal if inhaled. 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.
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. 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 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. P312: Call a POISON CENTRE/doctor if you feel unwell. P314: Get medical advice/attention if you feel unwell. 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. 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.
Acronyms	ATE : Acute Toxicity Estimate CAS : Chemical Abstracts Service LTEL : Long term exposure limit STEL : Short term exposure limit STOT : Specific Target Organ Toxicity
Key literature references and sources for data used to compile the SDS	In accordance to GHS as implemented under WHS Regulations
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