



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: Gorilla Glue
Synonyms: Polyurethane adhesive
Product Use: Consumer Adhesives for building, carpentry, or hobby projects.

Australian Supplier: **Kincrome Tools & Equipment Pty Ltd**
3 Lakeview Drive
Caribbean Business Park
Scoresby, Victoria 3179
Australia

Telephone: +611300 657 528
Fax: +611300 556 005

Emergency Number: **13 11 26**

Manufacturer: Gorilla Glue Europe A/S
Chorley Business & Technology Centre
East Terrace Euxton Lane
Chorley PR7 6TE

Telephone: +44-(0)1257 241319
Date of SDS Preparation: 24 August 2016

Section 2. Hazards Identification

Australia NOHSC – Hazardous according to Safe Work Australia NOHSC 2011 National Code of Practice

Pictograms



Toxic/Irritation



Chronic

Warning Signal: **Warning**

Hazard Code	Hazard Statement	GHS Category
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H332	Harmful if inhaled.	Category 4
H315	Causes skin irritation.	Category 2
H319	Causes serious eye irritation.	Category 2A
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Category 1
H317	May cause an allergic skin reaction.	Category 1
H351	Suspected of causing cancer.	Category 2
H373	May cause damage to organs through prolonged or repeated exposure.	Category 2
H335	May cause respiratory irritation.	Category 3



SAFETY DATA SHEET

Prevention Code Prevention Statement

P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe fumes or vapours.
P264	Wash hands 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 clothing.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection.

Response Code Response Statement

P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P362	Take off contaminated clothing and wash before re-use.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P341	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position 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.
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 CENTER or doctor/physician.

Storage Code Storage Statement

P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

Disposal Code Disposal Statement

P501	Dispose of according to Local Regulations or Authorities
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Section 3. Composition / Information on Ingredients

Ingredient	Cas No	Weight %
Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol	67815-87-6	40-70
4,4'-Methylenediphenyl diisocyanate	101-68-8	15-25
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	10-30
Benzene, 1,1'-methylenebis[isocyanato-	26447-40-5	1-5
Non-hazardous	-	To balance

Section 4. First Aid Measures



SAFETY DATA SHEET

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs: get medical advice/attention.
If Swallowed	Rinse mouth. DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
If Inhaled	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult or if you feel unwell.

Section 5. Fire Fighting Measures

Hazard Type	Not flammable.
Hazards from decomposition products	Exothermic reaction with amines and alcohols; reacts with water forming heat, CO ₂ , and insoluble polyurea. The combined effect of CO ₂ and heat can produce enough pressure to rupture a closed container.
Suitable Extinguishing media	Carbon dioxide, dry powder, and foam. In cases of large scale fires, alcohol-resistant foams are preferred. If water is used, it should be used in very large quantities and from a safe distance. The reaction between water and isocyanate may be vigorous. Unsuitable: Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Precautions for firefighters and special protective clothing	Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Do not allow run-off from fire-fighting to enter drains or water courses. Down-wind personnel must be evacuated. Do not reseal contaminated containers; a chemical reaction generating carbon dioxide 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 carbon dioxide will accelerate. MDI vapor and other gases may be generated by thermal decomposition.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

For emergency responders:

Use personal protection recommended in Section 8. Do not get in eyes, on skin, or on clothing. Evacuate unnecessary personnel.

Methods and material for containment and cleaning up

Ventilate area. Stop leak if safe to do so. Absorb and/or contain spill with inert material, then place in suitable container. Remove mechanically but cautiously as this process can generate heat; cover remainders with wet absorbent material (e. g. sand, earth, sawdust). After approx. 15 min. transfer to



SAFETY DATA SHEET

waste container and do not seal (evolution of CO₂). Keep damp in a safe ventilated area for several days. Clear up spills immediately and dispose of waste safely. Prevent entry to sewers and public waters.

Section 7. Handling and Storage

Handling

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe fumes or vapours.
- Wash hands with mild soap thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective clothing.
- Use personal protective equipment as required.
- In case of inadequate ventilation wear respiratory protection.

Storage

- Store locked up.
- Keep out of reach of children and animals.
- Store in a dry, cool and well-ventilated place. Keep container tightly closed.
- Keep product away from sources of heat, and alcohols, amines, or other materials that react with isocyanates.
- Store away from strong acids, strong bases, strong oxidizers, amines, alcohols.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm mg/m ³	STEL ppm mg/m ³
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Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)		
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0,05 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
4,4'-Methylenediphenyl diisocyanate (101-68-8)		
Austria	MAK (mg/m ³)	0,05 mg/m ³
Austria	MAK (ppm)	0,005 ppm
Austria	MAK Short time value	0,1 mg/m ³
Austria	MAK Short time value (ppm)	0,01 ppm
Belgium	Limit value (mg/m ³)	0,052 mg/m ³
Belgium	Limit value (ppm)	0,005 ppm
France	VLE (mg/m ³)	0,2 mg/m ³
France	VLE (ppm)	0,02 ppm
France	VME (mg/m ³)	0,1 mg/m ³
France	VME (ppm)	0,01 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0,05 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)



SAFETY DATA SHEET

Italy - Portugal - USA	ACGIH TWA (ppm)	0,005 ppm
Spain	VLA-ED (mg/m ³)	0,052 mg/m ³
Spain	VLA-ED (ppm)	0,005 ppm
Czech Republic	Expoziční limity (PEL)	0,05 mg/m ³

4,4'-Methylenediphenyl diisocyanate (101-68-8)

Denmark	Grønseværdie (langvarig)	0,05 mg/m ³
Denmark	Grønseværdie (langvarig)	0,005 ppm
Hungary	AK-érték	0,05 mg/m ³
Hungary	CK-érték	0,05 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	0,02 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	0,07 mg/m ³
Lithuania	NRV (mg/m ³)	0,1 mg/m ³
Lithuania	NRV (ppm)	0,01 ppm
Poland	NDS (mg/m ³)	0,03 mg/m ³
Poland	NDSch (mg/m ³)	0,09 mg/m ³
Poland	NDSP (mg/m ³)	0,2 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	0,03 mg/m ³ (Isocyanates)
Slovakia	NPHV (Hraničná) (mg/m ³)	0,05 mg/m ³
Sweden	nivågränsvärde (NVG)	0,03 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	0,002 ppm
Sweden	takgränsvärde (TGV)	0,05 mg/m ³
Sweden	takgränsvärde (TGV) (ppm)	0,005 ppm
Portugal	OEL TWA (ppm)	0,005 ppm

Benzene, 1,1'-methylenebis[isocyanato- (26447-40-5)

Austria	MAK Short time value	0,1 mg/m ³ (all isomers)
Austria	MAK Short time value (ppm)	0,01 ppm (all isomers)
Bulgaria	OEL TWA (mg/m ³)	0,05 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	0,07 mg/m ³
Lithuania	IPRV (mg/m ³)	0,05 mg/m ³
Lithuania	IPRV (ppm)	0,005 ppm
Lithuania	NRV (mg/m ³)	0,1 mg/m ³
Lithuania	NRV (ppm)	0,01 ppm
Poland	NDS (mg/m ³)	0,03 mg/m ³
Poland	NDSch (mg/m ³)	0,09 mg/m ³
Romania	OEL STEL (mg/m ³)	0,15 mg/m ³

Engineering Controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide sufficient ventilation to keep vapors below permissible exposure limit. Ensure all national/local regulations are observed.

Personal Protection Equipment



Eyes	Chemical goggles or safety glasses. Avoid wearing contact lenses.
Hands and Skin	Wear chemically resistant protective gloves. Wear suitable protective clothing.
Respiratory	Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Section 9 Physical and Chemical Properties

Appearance	Brown Liquid
Odour	Earthy. Musty
Odour Threshold	Not available
pH	Not available
Boiling Point	208°C
Melting Point	Not available
Freezing Point	Not available
Flash Point	>93°C Closed Cup
Flammability	Not available
Upper and Lower Exposure Limits	Not available
Vapour Pressure	< 0.0001 mmHg at 25 °C for the isocyanate
Density	1,14 g/cm ³ at 20 °C
Relative Density	1,14 (water = 1)
Solubilities	Insoluble in water.
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	4000 - 7000 mPa.s at 25 °C
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Reactivity	Exothermic reaction with amines and alcohols; reacts with water forming heat, CO ₂ , and insoluble polyurea. The combined effect of CO ₂ and heat can produce enough pressure to rupture a closed container.
Conditions to Avoid	Direct sunlight. Direct sunlight, heat, flames, and sparks. Protect from freezing.
Incompatible Materials	Strong acids, strong bases, strong oxidizers, alcohols.
Hazardous Decomposition Products	Carbon oxides (CO, CO ₂). Nitrogen compounds. Cyanides. Isocyanates.

Section 11 Toxicological Information**Acute Effects:**

Swallowed	Harmful if swallowed
Dermal	Not applicable.
Inhalation	May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eye	Causes serious eye irritation.
Skin	Causes skin irritation. May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Suspected of causing cancer.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through prolonged or repeated exposure.

Section 12. Ecotoxicological Information

This product is not harmful to the environment.

Persistence and degradability	0 % after 28 days
Bioaccumulation	Not expected to bioaccumulate.
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13. Disposal Considerations

This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in Australian Dangerous Goods Code ADG7 and NOHSC:1008(2004)

Section 15 Regulatory Information

Australia NOHSC – Hazardous according to Safe Work Australia NOHSC 2011 National Code of Practice.

Poison Schedule: Not Scheduled

Section 16 Other Information

1. Safe Work Australia: Preparation of SDS sheets for hazardous chemicals(Code of Practice).

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