

Material Safety Data Sheet

Data prepared: June 4, 2002

Data revised: August 2005

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product Name: Gorilla Glue®
Product Type: Polyurethane adhesive for wood and wood substrates
Distributor: The Gorilla Glue Company
4550 Red Bank Expressway
Cincinnati, OH 45227
Tel: (513) 271-3300
Fax: (513) 527-3742
Emergency: During business hours: The Gorilla Glue Company: (800) 966-3458.
Outside business hours: ProSAR International Poison Center: (800) 420-7186.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	% content
Urethane prepolymer	trade secret	60-70
Polymeric MDI*	9016-87-9	30-40

*MDI: 4,4'-Diphenylmethane diisocyanate. Polymeric MDI is a mixture of monomeric MDI, isomeres and homopolymer.

3. HAZARDS IDENTIFICATION

Vapors from the product may be irritating to the eyes, respiratory system and skin. MDI in product is a strong sensitiser, resulting in possible allergic reactions. Skin and eye contact may cause irritation and sensitisation.

4. FIRST AID MEASURES

Inhalation	Move affected individual to fresh air, administer oxygen and artificial respiration as necessary. Call doctor if any problem persists.
Eye contact	Flush eyes for at least 20 minutes while holding eyelids open. Seek medical attention.
Skin contact	Remove contaminated clothes immediately, and wash skin thoroughly with soap and warm water. Get medical attention if irritation or sensitization develops or persists.
Ingestion	Product is not intended to be ingested or eaten. If this product is ingested, severe irritation or blockage of the gastrointestinal tract may occur, and should be treated symptomatically. Call doctor or ambulance.

5. FIRE FIGHTING MEASURES

Upper flammable limit (UFL): Not determined

**Special hazards in fire**

In case of fire, formation of carbon monoxide, carbon dioxide, nitrogen oxide, isocyanate vapor, and traces of hydrogen cyanide is possible.

Extinguishing Media

Carbon dioxide, dry powder, and foam. In cases of large scale fires, alcohol-resistant foams are

Personal protection equipment (continued)

Suitable materials for clothing	Polyethylene/ethylene vinyl alcohol laminate (PE/VAL) has been reported as an effective material of construction for chemical protective clothing for MDI.
Respiratory protection	Must be used if concentration above the critical values.
Hand protection	Use protective lotion or gloves.
Eyes protection	Chemical goggles or full face shields are recommended. An eyewash fountain and safety shower should be available in the work area. Contact lenses should not be worn when working with this product.
Skin protection	Wear special gloves and working clothes to avoid skin irritation or sensitization. Depending on operation, chemical resistant boots, overshoes, and apron may also be required.
Ventilation	If vapor or mist is generated during processing or use, local exhaust ventilation should be provided to maintain exposures below the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical form	Liquid
Color	Dark-brown
Odor	Mild amine
Boiling point	368°C (>694°F)
Flash point	>250°C (>482°F)
Vapour pressure	< 0,00001 mbar at 20°C (68°F)
Specific gravity	1,15 g/cm ³ at 20°C (68°F)
Viscosity	5,500 – 8,500 mPa.s at 25°C (77°F)
Solubility in water	Reacts
pH	Not applicable
Percent volatile	0%

10. STABILITY AND REACTIVITY

Stability

The product is stable under the recommended handling and storage conditions (see Section 7).

Hazardous decomposition products

By exposure to high temperature, hazardous decomposition products may develop, such as isocyanate vapor and mist, carbon dioxide, carbon monoxide, nitrogen oxide, and traces of hydrogen cyanide.

Hazardous reaction

Exothermic reaction with amines and alcohols; reacts with water forming heat, CO₂, and insoluble polyurea. The combined effect of CO₂ and heat can produce enough pressure to rupture a closed container.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	LD ₅₀ oral, rat: > 5000 mg/kg
Carcinogenicity	Gorilla Glue, with the exception of unavoidable ubiquitous traces, does not contain any substances currently classified by EU Council Directive 67/548/EEC, its amendments and adaptations to technical progress, as a carcinogen category 1, 2 or 3.
Inhalation	May cause irritation of the mucous membranes of nose, throat or trachea.
Skin contact	Prolonged or repeated contact may result in dermatitis, either irritative or allergic.
Eye contact	May result in conjunctiva irritation and mild corneal opacity.
Medical information	Symptomatic treatment. y develop, such as isocyanate vapor and mist,

12. ECOLOGICAL INFORMATION

The product should not be discharged into drains or streams.

Biodegradability	0% after 28 days
Acute fish toxicity	LC0 = > 1000 mg/l (96 hrs.)
Toxicity for daphnia	EC 50 = > 1000 mg/l (24 hrs.)
Acute bacteria toxicity	EC 50 = > 100 mg/l (3 hrs.)

13. DISPOSAL CONSIDERATIONS

The product remnants are classified as chemical waste. Dispose of waste according to local, state, federal, and provincial environmental regulations.

14. TRANSPORTATION INFORMATION