



SAFETY DATA SHEET – Gorilla Glue

Date Revised: April 24, 2015 1st Edition

FOR CHEMICAL EMERGENCY:

During Business Hours: (800) 966-3458 | Outside Business Hours: (800) 420-7186

1. IDENTIFICATION OF THE PRODUCT

Product Name Gorilla Glue®

Use/Size Polyurethane Adhesive

Distributor The Gorilla Glue Company
4550 Red Bank Expressway
Cincinnati, OH 45227
Tel: (513) 271-3300
Fax: (513) 527-3742

2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Inhalation): Category 4
Skin irritation: Category 2
Eye irritation: Category 2B
Respiratory sensitization: Category 1
Skin sensitization: Category 1
Specific target organ toxicity – single exposure: Category 3 (Respiratory System)
Specific target organ toxicity – repeated exposure (Inhalation): Category 3 (Respiratory Tract)

GHS Labeling



Hazardous Symbols:

Signal Word: Danger

Hazardous Statements: Causes skin and eye irritation.
May cause an allergic skin reaction.
Harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
Causes damage to organs (Respiratory Tract) through prolonged or repeated exposure.

Precautionary Statements

Prevention: Do not breathe dust, mist, gas, vapors or spray.
Use only outdoors or in a well-ventilated area.
Wash skin and face thoroughly after handling.



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Response: IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a doctor or emergency medical facility if you feel unwell.

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

Disposal: Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Concentration	Classification
Polyisocyanate Prepolymer based on MDI	67815-87-6	40-70 %	Acute toxicity Cat 4 Inhalation Skin irrit. Cat 2 Eye irrit. Cat 2B Respiratory sens. Cat 1 Skin sens Cat 1 STOT-SE Cat 3 Respiratory System STOT-RE Cat 1 Respiratory Tract
4,4'-Diphenylmethane Diisocyanate (MDI)	101-68-8	10-30 %	Acute toxicity Cat 4 Inhalation Skin irrit. Cat 2 Eye irrit. Cat 2B Respiratory sens. Cat 1 Skin sens Cat 1 STOT-SE Cat 3 Respiratory System STOT-RE Cat 1 Respiratory Tract
Polymeric Diphenylmethane Diisocyanate (pMDI)	9016-87-9	10-30 %	Acute toxicity Cat 4 Inhalation Skin irrit. Cat 2 Eye irrit. Cat 2B Respiratory sens. Cat 1 Skin sens Cat 1 STOT-SE Cat 3 Respiratory System STOT-RE Cat 1 Respiratory Tract
Diphenylmethane Diisocyanate (MDI) Mixed Isomers	26447-40-5	1-5 %	Acute toxicity Cat 4 Inhalation Skin irrit. Cat 2 Eye irrit. Cat 2B Respiratory sens. Cat 1 Skin sens Cat 1 STOT-SE Cat 3 Respiratory System STOT-RE Cat 1 Inhalation Respiratory Tract



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Additive	Trade Secret	0.1-1 %	Acute toxicity Cat 4 Dermal Skin irrit. Cat 2 Eye irrit. Cat 2B Skin sens Cat 1 STOT-SE Cat 3 Respiratory System STOT-RE Cat 1 Respiratory Tract
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4. FIRST AID MEASURES

- Eyes** Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.
- Skin** Remove contaminated clothes immediately. Wash skin with a cleanser based on polyethylene glycol or with plenty of water and soap. Consult a doctor in the event of a skin reaction.
- Ingestion** Product is not intended to be ingested or eaten. If this product is ingested, it may cause gastrointestinal blockage. If ingested, it may cause severe irritation of the gastrointestinal tract, and should be treated symptomatically. Do not induce the patient or animal to vomit. Call a doctor, ambulance or seek veterinarian assistance immediately.
- Inhalation** Remove person to fresh air. Seek medical attention if symptoms persist.
- Advice to Physicians** Treat symptomatically.

5. FIRE- FIGHTING MEASURES

Extinguishing Media

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. The reaction between water and isocyanate may be vigorous.

Unsuitable Extinguishing Media: High volume water jet.

Special Hazards Arising from the Substance or Mixture

Fire Hazard: Not Flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Exothermic reaction with amine and alcohols; reacts with water forming heat, carbon dioxide, and insoluble polyurea. The combined effect of carbon dioxide and heat can produce enough pressure to rupture a closed container. Dense black smoke is emitted when product is burned without sufficient oxygen.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting instructions: Do not allow run off to enter drains or water courses.

Protection during Fire Fighting: Wear proper protective equipment including respiratory protection.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide, oxides of Nitrogen, dense black smoke, isocyanate, isocyanic acid.

Reference to other sections: See Section 9 – Flammability properties; Section 13 – Disposal.



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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Wear appropriate protective clothing. Do not get in eyes, on skin or on clothing.

Environmental Precautions

Prevent the material from entering drains or watercourses.

Methods for Containment and Clean-up

Pick up and transfer into suitable container for recovery or disposal.

7. HANDLING AND STORAGE

Precaution for Safe Handling

Handle in accordance with good industrial hygiene and safety procedures. Use with adequate ventilation.

Wash hands and exposed areas with mild soap and water before eating, drinking, or smoking.

Conditions for Safe Storage

Keep out of reach of children and animals. Storage area should be: - cool - dry - well ventilated – out of direct sunlight - away from incompatible materials

Incompatible Materials: Water, Amines, Strong bases, Alcohols, Copper alloys

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

4,4'-Diphenylmethane Diisocyanate (MDI) CAS# 101-68-8

US ACGIH Threshold Limit Values: 0.005 ppm Time Weighted Average

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

0.02 ppm, 0.2 mg/m³ Ceiling Limit Value

Any component listed in Section 3 that is not listed in this section does not have a known ACGIH TLV, or OSHA PEL.

Engineering Control Measures

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 limits. Ensure all national / local regulations are observed.

Personal Protective Measures

Respiratory Protection: Use a NIOSH- approved respirator or a self-contained breathing apparatus whenever exposure levels exceed the Occupational Exposure Limits.

Skin / Body Protection: Wear suitable protective clothing.

Eye / Face Protection: Wear safety glasses / goggles.

Hand Protection: Wear chemical resistant gloves.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	pH	Not applicable
Color	Brown	Density (g/cm³)	1.138
Odor	Earthy, musty	Specific Gravity	1.137 at 25°C
Odor Threshold	No data available	Melting Point (°C/F)	0°C (32°F)
Boiling Range/Point (°C/F)	208°C (406.4°F)	Vapor Pressure	<0.0001 mmHg at 25°C
Flash Point (PMCC) (°C/F)	>93°C (> 199.4°F)	Solubility in Water	Negligible
Evaporation Rate (BuAc=1)	No data available	Viscosity	No data available
Vapor Density (Air = 1)	No data available	Auto-Ignition Temperature	No data available
VOC (g/l)	No data available	Decomposition Temperature	No data available
VOC (%)	No data available	Upper Explosive Limit	No data available
Partition Coefficient (n-octanol/water)	No data available	Lower Explosive Limit	No data available
Flammability (solid / gas)	Not applicable		

10. STABILITY AND REACTIVITY

Reactivity

Exothermic reaction with amine and alcohols; reacts with water forming heat, carbon dioxide, and insoluble polyurea. The combined effect of carbon dioxide and heat can produce enough pressure to rupture a closed container. Dense black smoke is emitted when product is burned without sufficient oxygen.

Chemical Stability

Stable under normal conditions of use and storage.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Direct Sunlight – high and low temperatures – contact with incompatible materials

Incompatible Materials

Water - Acids – bases – strong oxidizers – copper alloys

Hazardous Decomposition Products

Oxides of carbon – oxides of nitrogen – cyanides - isocyanates

11. TOXICOLOGICAL INFORMATION

Product

Acute Toxicity

Inhalation: dust, mist: Harmful if inhaled. ATE US (dust, mist): 1.41 mg/l/4h

Specific Target Organ Systemic Toxicity (STOT single exposure)

May cause respiratory irritation.



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Specific Target Organ Systemic Toxicity (STOT repeated exposure)

May cause damage to organs through prolonged or repeated exposure.

Serious Eye damage / Eye Irritation

Causes serious eye irritation.

Skin Corrosion/Irritation

Causes skin irritation.

Respiratory or Skin Sensitization

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

Carcinogenicity

Suspected of causing cancer.

Germ Cell Mutagenicity

No data is available to indicate product or listed components may cause reproductive toxicity or birth defects.

Aspiration Hazard

Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No relevant studies identified.

Mobility in Soil

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio-accumulation Potential

Not expected to bioaccumulate

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data

Not Regulated.

UN Proper Shipping Name

Not Regulated.

UN Class

None.

UN Number

None.

UN Packaging Group

None.

Classification for AIR

Consult current IATA regulations prior to shipping by air.

Transportation (IATA)

Sea Transport (IMDG)

Not Regulated.

Environmental Hazards

Not a marine pollutant.



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15. REGULATORY INFORMATION

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing

All components of this product are in compliance with the inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

SARA Title III Sect. 311/312 Categorization

Acute Health Hazard, Chronic Health Hazard

SARA Title III Sect. 313

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: 4,4'-Diphenylmethane Diisocyanate (MDI), Polymeric Diphenylmethane Diisocyanate (pMDI)

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

This product contains a trace (ppm) amount of phenyl isocyanate (CAS# 103-71-9) and monochlorobenzene (CAS# 108-90-7), present below the maximum concentration for D021toxicity.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

<u>Weight %</u>	<u>Components</u>	<u>CAS-No.</u>
40 – 70 %	Polyisocyanate Prepolymer based on MDI	67815-87-6
15 - 25%	4,4'-Diphenylmethane Diisocyanate (MDI)	101-68-8
10 - 30%	Polymeric Diphenylmethane Diisocyanate (pMDI)	9016-87-9
1 - 5%	Diphenylmethane Diisocyanate (MDI) Mixed Isomers	26447-40-5

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

<u>Weight %</u>	<u>Components</u>	<u>CAS-No.</u>
15 - 25%	4,4'-Diphenylmethane Diisocyanate (MDI)	101-68-8
10 - 30%	Polymeric Diphenylmethane Diisocyanate (pMDI)	9016-87-9

Massachusetts RTK Extraordinarily Hazardous Substance List:

<u>Weight</u>	<u>Components</u>	<u>CAS-No.</u>
1 – 5 ppm	Furan	110-00-9



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California Proposition 65

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986.

Warning! This product contains chemicals known to the State of California to be Carcinogenic.

Concentration	Components	CAS #
< 1 ppm	Acetaldehyde	75-07-0
1-5 ppm	Furan	110-00-9
< 1 ppm	Propylene Oxide	75-56-9

16. OTHER INFORMATION

Abbreviations

N.A.: Denotes no applicable information found or available

CAS#: Chemical Abstracts Service Number

Irrit.: Irritant

ppm – parts per million

RTK – Right to Know

Sens: Sensitizer

VOC: Volatile Organic Compounds

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 or disposal of this product must be determined by the user to be in accordance with applicable federal, state, provincial and local laws and regulations.