



# SAFETY DATA SHEET – Gorilla Glue White

Date Revised: April 24, 2015 1<sup>st</sup> 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® White  
**Use/Size** Polyurethane Adhesive  
**Distributor** The Gorilla Glue Company  
4550 Red Bank Expressway  
Cincinnati, OH 45227  
Tel: (513) 271-3300  
Fax: (513) 527-3742  
**Emergency Telephone Number** 1-800-420-7186

## 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  
Specific target organ toxicity – repeated exposure: Category 1

### 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.  
**Response:** IF ON SKIN: Wash with plenty of soap and water.



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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.

Other Hazards: Contains isocyanates. May produce an allergic reaction.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Concentration	Classification
Aromatic Polyisocyanate based on MDI	167883-19-4	60-100 %	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
2,4'-Diphenylmethane Diisocyanate (MDI)	5873-54-1	10-20 %	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
4,4'-Diphenylmethane Diisocyanate (MDI)	101-68-8	10-20 %	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



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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

## 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.



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### 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/m<sup>3</sup> 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

<b>Physical State</b>	Liquid	<b>pH</b>	Not applicable
<b>Color</b>	White, Light Yellow	<b>Density (g/cm<sup>3</sup>)</b>	1.123
<b>Odor</b>	Musty	<b>Specific Gravity</b>	1.137 at 25°C
<b>Odor Threshold</b>	No data available	<b>Melting Point (°C/F)</b>	No data available
<b>Boiling Range/Point (°C/F)</b>	>300°C (572°F)	<b>Vapor Pressure</b>	<0.0001 mmHg at 25°C
<b>Flash Point (PMCC) (°C/F)</b>	>198°C (> 388.4°F)	<b>Solubility in Water</b>	Negligible
<b>Evaporation Rate (BuAc=1)</b>	No data available	<b>Viscosity</b>	No data available
<b>Vapor Density (Air = 1)</b>	No data available	<b>Auto-Ignition Temperature</b>	No data available
<b>VOC (g/l)</b>	No data available	<b>Decomposition Temperature</b>	No data available
<b>VOC (%)</b>	No data available	<b>Upper Explosive Limit</b>	No data available
<b>Partition Coefficient</b> (n-octanol/water)	No data available	<b>Lower Explosive Limit</b>	No data available
<b>Flammability (solid / gas)</b>	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 – based on polymeric MDI

#### Acute Toxicity

Inhalation: LC50: 0.49 mg/l/4h

Oral: LD50: >2000 mg/kg (rat, male/female)

Dermail: LD50: > 9400 mg/kg (rabbit, male/female)



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### Specific Target Organ Systemic Toxicity (STOT repeated exposure)

Irritation to lung and nasal cavity.

### Serious Eye damage / Eye Irritation

Causes 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

Not classified.

### Germ Cell Mutagenicity

Not classified.

### 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

Immediate (Acute) Health Hazard, Delayed (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)

#### 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), as impurities.

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

<u>Weight %</u>	<u>Components</u>	<u>CAS-No.</u>
60 - 100 %	Aromatic Polyisocyanate based on MDI	167883-19-4
10 - 20%	2,4'-Diphenylmethane Diisocyanate (MDI)	5873-54-1
10 - 20%	4,4'-Diphenylmethane Diisocyanate (MDI)	101-68-8

#### 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>
10 - 20%	4,4'-Diphenylmethane Diisocyanate (MDI)	101-68-8

#### California Proposition 65

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

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state for California has found to cause cancer, birth defects or other reproductive harm.



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## 16. OTHER INFORMATION

### Abbreviations

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

CAS#: Chemical Abstracts Service Number

Irrit.: Irritant

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.