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 prolong 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.
       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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Concentration</th>
<th>Classification</th>
</tr>
</thead>
</table>
| 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 |
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**  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.
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 OHSA 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.
9. PHYSICAL AND CHEMICAL PROPERTIES

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

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.
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)

Environmental Hazards
Not Regulated.

Not a marine pollutant.
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 D021 toxicity.

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

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

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

<table>
<thead>
<tr>
<th>Weight %</th>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 - 25%</td>
<td>4,4’-Diphenylmethane Diisocyanate (MDI)</td>
<td>101-68-8</td>
</tr>
<tr>
<td>10 - 30%</td>
<td>Polymeric Diphenylmethane Diisocyanate (pMDI)</td>
<td>9016-87-9</td>
</tr>
</tbody>
</table>

Massachusetts RTK Extraordinarily Hazardous Substance List:

<table>
<thead>
<tr>
<th>Weight</th>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 5 ppm</td>
<td>Furan</td>
<td>110-00-9</td>
</tr>
</tbody>
</table>
California Proposition 65
The following statement is made in order to comply with the California Safe Drinking Water and Toxic
Warning! This product contains chemicals known to the State of California to be Carcinogenic.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Components</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1 ppm</td>
<td>Acetaldehyde</td>
<td>75-07-0</td>
</tr>
<tr>
<td>1-5 ppm</td>
<td>Furan</td>
<td>110-00-9</td>
</tr>
<tr>
<td>&lt; 1 ppm</td>
<td>Propylene Oxide</td>
<td>75-56-9</td>
</tr>
</tbody>
</table>

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.