



# Safety Data Sheet - Gorilla Glue

Date Revised: 02/04/2016  
Date Issued: 05/21/2015

Version: 1.2

## FOR CHEMICAL EMERGENCY:

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

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## SECTION 1: IDENTIFICATION

### Product Identifier

**Product Name:** Gorilla Glue

**Synonyms:** Polyurethane Adhesive

### Intended Use of the Product

Consumer Adhesives for building, carpentry, or hobby projects.

### Name, Address, and Telephone of the Responsible Party

#### Company

The Gorilla Glue Company  
4550 Red Bank Expressway  
Cincinnati, Ohio 45227  
513-271-3300

[www.gorillatough.com](http://www.gorillatough.com)

### Emergency Telephone Number

**Emergency number** : 1-800-420-7186 (Prosar)

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

#### Classification (GHS-US)

Acute Tox. 4 (Inhalation:dust,mist) H332  
Skin Irrit. 2 H315  
Eye Irrit. 2B H320  
Resp. Sens. 1 H334  
Skin Sens. 1 H317  
STOT SE 3 H335  
STOT RE 1 H372

Full text of H-phrases: see section 16

### Label Elements

#### GHS-US Labeling

#### Hazard Pictograms (GHS-US)



#### Signal Word (GHS-US)

: Danger

#### Hazard Statements (GHS-US)

: H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H320 - Causes eye irritation.  
H332 - Harmful if inhaled.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 - May cause respiratory irritation.  
H372 - Causes damage to organs through prolonged or repeated exposure.

#### Precautionary Statements (GHS-US)

: P260 - Do not breathe vapors, mist, or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P280 - Wear protective gloves, protective clothing, and eye protection.



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P284 - [In case of inadequate ventilation] wear respiratory protection.  
P302+P352 - If on skin: Wash with plenty of water.  
P304+P340 - If inhaled: Remove person 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.  
P312 - Call a poison center or doctor if you feel unwell.  
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.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

### Other Hazards

**Other Hazards:** May cause gastro-intestinal blockage if swallowed. Seek medical advice immediately. Contains isocyanates. May produce an allergic reaction.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

| Name                                             | Product Identifier  | % (w/w) | Classification (GHS-US)                                                                                                                                                    |
|--------------------------------------------------|---------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Polyisocyanate Prepolymer based on MDI           | (CAS No) 67815-87-6 | 40 - 70 | Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>STOT RE 1, H372 |
| Polymeric Diphenylmethane Diisocyanate (pMDI)    | (CAS No) 9016-87-9  | 10 - 30 | Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>STOT RE 1, H372 |
| 4,4'-Diphenylmethane diisocyanate                | (CAS No) 101-68-8   | 15 - 25 | Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>STOT RE 2, H373 |
| Diphenylmethane Diisocyanate (MDI) Mixed Isomers | (CAS No) 26447-40-5 | 1 - 5   | Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317                                       |



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|          |                       |      |                                                                                                                    |
|----------|-----------------------|------|--------------------------------------------------------------------------------------------------------------------|
|          |                       |      | STOT SE 3, H335<br>STOT RE 1, H372                                                                                 |
| Additive | (CAS No) Trade Secret | <0.5 | Acute Tox. 4 (Dermal), H312<br>Skin Irrit. 2, H315<br>Eye Irrit. 2B, H320<br>Skin Sens. 1, H317<br>STOT SE 3, H335 |

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Using proper respiratory protection, immediately move the exposed person to fresh air. Seek medical attention immediately.

**Skin Contact:** Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Irritation to eyes, skin and respiratory tract. Exposure may produce an allergic reaction. Inhalation may cause allergic respiratory reaction with asthma-like symptoms and difficulty breathing.

**Inhalation:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

**Skin Contact:** Causes skin irritation. Exposure may produce an allergic reaction.

**Eye Contact:** Causes eye irritation.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects. May cause gastro-intestinal blockage if swallowed.

**Chronic Symptoms:** May cause damage to organs through prolonged or repeated exposure.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

## SECTION 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:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Exothermic reaction with amines and alcohols; reacts with water forming heat, CO<sub>2</sub>, and insoluble polyurea. The combined effect of CO<sub>2</sub> and heat can produce enough pressure to rupture a closed container.

### Advice for Firefighters

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

**Firefighting Instructions:** Do not allow run-off from fire fighting to enter drains or water courses.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Fire will produce dense black smoke. Carbon oxides (CO, CO<sub>2</sub>). Nitrogen compounds.



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### Reference to Other Sections

Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not get in eyes, on skin, or on clothing.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### Environmental Precautions

Prevent entry to sewers and public waters.

### Methods and Material for Containment and Cleaning Up

**For Containment:** Absorb and/or contain spill with inert material, then place in suitable container.

**Methods for Cleaning Up:** Remove mechanically; cover remainders with wet absorbent material (e. g. sand, earth, sawdust). After approx. 15 min. transfer to waste container and do not seal (evolution of CO<sub>2</sub>). Keep damp in a safe ventilated area for several days. Clean up spills immediately and dispose of waste safely.

### Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Additional Hazards When Processed:** Do not breathe vapors, mists, or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear respiratory protection if material is heated, sprayed, used in a confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor are not adequate to prevent overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Do not breathe smoke and gases created by overheating or burning this material. Decomposition products can be highly toxic and irritating.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Store away from incompatible materials. Keep product away from sources of alcohols, amines, or other materials that react with isocyanates. Keep out of reach of children and animals. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Amines. Alcohols. Copper and its alloys. Water.

**Storage Temperature:** 18 - 30 °C (64.4 - 86 °F)

### Specific End Use(s)

Consumer Adhesives for building, carpentry, or hobby projects.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.



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| Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)     |                                          |                                                                                                                                                |
|---------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Alberta                                                       | OEL TWA (mg/m <sup>3</sup> )             | 0.07 mg/m <sup>3</sup>                                                                                                                         |
| Alberta                                                       | OEL TWA (ppm)                            | 0.005 ppm                                                                                                                                      |
| 4,4'-Methylenediphenyl diisocyanate (101-68-8)                |                                          |                                                                                                                                                |
| USA ACGIH                                                     | ACGIH TWA (ppm)                          | 0.005 ppm                                                                                                                                      |
| USA OSHA                                                      | OSHA PEL (Ceiling) (mg/m <sup>3</sup> )  | 0.2 mg/m <sup>3</sup>                                                                                                                          |
| USA OSHA                                                      | OSHA PEL (Ceiling) (ppm)                 | 0.02 ppm                                                                                                                                       |
| USA NIOSH                                                     | NIOSH REL (TWA) (mg/m <sup>3</sup> )     | 0.05 mg/m <sup>3</sup>                                                                                                                         |
| USA NIOSH                                                     | NIOSH REL (TWA) (ppm)                    | 0.005 ppm                                                                                                                                      |
| USA NIOSH                                                     | NIOSH REL (ceiling) (mg/m <sup>3</sup> ) | 0.2 mg/m <sup>3</sup>                                                                                                                          |
| USA NIOSH                                                     | NIOSH REL (ceiling) (ppm)                | 0.020 ppm                                                                                                                                      |
| USA IDLH                                                      | US IDLH (mg/m <sup>3</sup> )             | 75 mg/m <sup>3</sup>                                                                                                                           |
| Alberta                                                       | OEL TWA (mg/m <sup>3</sup> )             | 0.05 mg/m <sup>3</sup>                                                                                                                         |
| Alberta                                                       | OEL TWA (ppm)                            | 0.005 ppm                                                                                                                                      |
| British Columbia                                              | OEL Ceiling (ppm)                        | 0.01 ppm                                                                                                                                       |
| British Columbia                                              | OEL TWA (ppm)                            | 0.005 ppm                                                                                                                                      |
| Manitoba                                                      | OEL TWA (ppm)                            | 0.005 ppm                                                                                                                                      |
| New Brunswick                                                 | OEL TWA (mg/m <sup>3</sup> )             | 0.051 mg/m <sup>3</sup>                                                                                                                        |
| New Brunswick                                                 | OEL TWA (ppm)                            | 0.005 ppm                                                                                                                                      |
| Newfoundland & Labrador                                       | OEL TWA (ppm)                            | 0.005 ppm                                                                                                                                      |
| Nova Scotia                                                   | OEL TWA (ppm)                            | 0.005 ppm                                                                                                                                      |
| Ontario                                                       | OEL Ceiling (ppm)                        | 0.02 ppm (designated substances regulation)                                                                                                    |
| Ontario                                                       | OEL TWA (ppm)                            | 0.005 ppm (designated substances regulation)<br>0.005 ppm (applies to workplaces to which the designated substances regulation does not apply) |
| Prince Edward Island                                          | OEL TWA (ppm)                            | 0.005 ppm                                                                                                                                      |
| Québec                                                        | VEMP (mg/m <sup>3</sup> )                | 0.051 mg/m <sup>3</sup>                                                                                                                        |
| Québec                                                        | VEMP (ppm)                               | 0.005 ppm                                                                                                                                      |
| Saskatchewan                                                  | OEL STEL (ppm)                           | 0.015 ppm                                                                                                                                      |
| Saskatchewan                                                  | OEL TWA (ppm)                            | 0.005 ppm                                                                                                                                      |
| Yukon                                                         | OEL Ceiling (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                                                                          |
| Yukon                                                         | OEL Ceiling (ppm)                        | 0.02 ppm                                                                                                                                       |
| Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447-40-5) |                                          |                                                                                                                                                |
| Mexico                                                        | OEL TWA (mg/m <sup>3</sup> )             | 0.2 mg/m <sup>3</sup><br>0.051 mg/m <sup>3</sup>                                                                                               |
| Mexico                                                        | OEL TWA (ppm)                            | 0.02 ppm<br>0.005 ppm                                                                                                                          |
| USA OSHA                                                      | OSHA PEL (Ceiling) (mg/m <sup>3</sup> )  | 0.2 mg/m <sup>3</sup>                                                                                                                          |
| USA OSHA                                                      | OSHA PEL (Ceiling) (ppm)                 | 0.02 ppm                                                                                                                                       |
| Nunavut                                                       | OEL Ceiling (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                                                                          |
| Nunavut                                                       | OEL Ceiling (ppm)                        | 0.02 ppm                                                                                                                                       |
| Northwest Territories                                         | OEL Ceiling (mg/m <sup>3</sup> )         | 0.2 mg/m <sup>3</sup>                                                                                                                          |
| Northwest Territories                                         | OEL Ceiling (ppm)                        | 0.02 ppm                                                                                                                                       |

## Exposure Controls

**Appropriate 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.



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**Personal Protective Equipment:** Protective clothing. Safety glasses. Gloves. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

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

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

|                                                   |                                                                         |
|---------------------------------------------------|-------------------------------------------------------------------------|
| Physical State                                    | : Liquid                                                                |
| Appearance                                        | : Brown                                                                 |
| Odor                                              | : Earthy, musty                                                         |
| Odor Threshold                                    | : Not available                                                         |
| pH                                                | : Not available                                                         |
| Evaporation Rate                                  | : Not available                                                         |
| Melting Point                                     | : 0 °C (Calculated) (32 °F)                                             |
| Freezing Point                                    | : Not available                                                         |
| Boiling Point                                     | : 208 °C (406.4 °F)                                                     |
| Flash Point                                       | : > 205 °C (> 401 °F) (Pensky-Martens Closed Cup (ASTM D-93))           |
| Auto-ignition Temperature                         | : Not available                                                         |
| Decomposition Temperature                         | : Polymerizes at about 200 °C with evolution of CO <sub>2</sub>         |
| Flammability (solid, gas)                         | : Not available                                                         |
| Lower Flammable Limit                             | : Not available                                                         |
| Upper Flammable Limit                             | : Not available                                                         |
| Vapor Pressure                                    | : < 0.0001 mm Hg @ 25 °C (77 °F)                                        |
| Relative Vapor Density at 20 °C                   | : Not available                                                         |
| Relative Density                                  | : Not available                                                         |
| Density                                           | : 1.138 g/cm <sup>3</sup> @ 20 °C (68 °F)                               |
| Specific Gravity                                  | : 1.137 @ 25 °C (77 °F)                                                 |
| Solubility                                        | : Insoluble in water.                                                   |
| Partition Coefficient: N-Octanol/Water            | : Not available                                                         |
| Viscosity                                         | : Not available                                                         |
| Explosion Data – Sensitivity to Mechanical Impact | : Not expected to present an explosion hazard due to mechanical impact. |
| Explosion Data – Sensitivity to Static Discharge  | : Not expected to present an explosion hazard due to static discharge.  |

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Exothermic reaction with amines and alcohols; reacts with water forming heat, CO<sub>2</sub>, and insoluble polyurea. The combined effect of CO<sub>2</sub> and heat can produce enough pressure to rupture a closed container.

**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**Possibility of Hazardous Reactions:** Contact with moisture, other materials that react with isocyanates, or temperatures above 350°F (177°C) may cause polymerization.





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**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Alcohols. Copper and its alloys. Amines. Water.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen compounds. Isocyanates. Fire will produce dense black smoke.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects - Product

**Acute Toxicity:** Based on polymeric MDI

**LD50 and LC50 Data:**

| Gorilla Glue           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 Oral Rat          | > 2000 mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| LD50 Dermal Rabbit     | > 9400 mg/kg (OECD Test Guideline 402)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| LC50 Inhalation Rat    | 0.49 mg/l/4h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ATE US (vapors)        | 0.49 mg/l/4h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ATE US (dust, mist)    | 0.49 mg/l/4h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Additional information | Toxicity data based on polymeric MDI (a mixture of monomers and higher molecular weight oligomers). For inhalation, the test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgment and the weight of evidence, a modified classification for acute inhalation toxicity is justified |

**Skin Corrosion/Irritation:** Causes skin irritation. (Rabbit, slightly irritating)

**Serious Eye Damage/Irritation:** Causes eye irritation.

**Respiratory or Skin Sensitization:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified (Genetic Toxicity in Vitro: Bacterial - gene mutation assay: negative (Salmonella typhimurium, Metabolic Activation: with/without))

**Teratogenicity:** Rat, female, inhalation, gestation days 6-15, 6 hrs/day, NOAEL (teratogenicity): 12 mg/m<sup>3</sup>, NOAEL (maternal) 4 mg/m<sup>3</sup>. No teratogenic effects observed at doses tested. Fetotoxicity seen only with maternal toxicity.

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Causes damage to organs through prolonged or repeated exposure.

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** Causes skin irritation. Exposure may produce an allergic reaction.

**Symptoms/Injuries After Eye Contact:** Causes eye irritation.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects. May cause gastro-intestinal blockage if swallowed.

**Chronic Symptoms:** May cause damage to organs through prolonged or repeated exposure.

| Gorilla Glue                                     |                                                                                  |
|--------------------------------------------------|----------------------------------------------------------------------------------|
| NOAEL (inhalation, rat, dust/mist/fume, 90 days) | 1 mg/m <sup>3</sup> (6hrs/day 5 days/week) Irritation to lungs and nasal cavity. |
| NOAEL (inhalation, rat, dust/mist/fume, 2 years) | 0.2 (6 hrs/day 5 days/week). Irritation to lungs and nasal cavity                |

### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**



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|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Polyisocyanate Prepolymer based on MDI (67815-87-6)</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Same as Gorilla Glue. See above.                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Same as Gorilla Glue. See above.                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>4,4'-Diphenylmethane diisocyanate (101-68-8)</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| LD50 Oral Rat                                                        | 7616 mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                          |
| LD50 Dermal Rabbit                                                   | > 9400 mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                        |
| LC50 Inhalation Rat                                                  | 0.368 mg/l/4h                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Additional information                                               | For inhalation, the test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgment and the weight of evidence, a modified classification for acute inhalation toxicity is justified |
| <b>Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447-40-5)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Same as Gorilla Glue. See above.                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Additive (Trade Secret)</b>                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| LD50 Oral Rat                                                        | 2200 mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                          |
| LD50 Dermal Rabbit                                                   | 1410 mg/kg                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| IARC Group                                                           | 3                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| IARC Group                                                           | 3                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447-40-5)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| IARC Group                                                           | 3                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General:** Ecotoxicity data based on polymeric MDI (a mixture of monomers and higher molecular weight oligomers).

|                                                     |                                                                            |
|-----------------------------------------------------|----------------------------------------------------------------------------|
| <b>Toxicity to Fish</b>                             |                                                                            |
| LC0 (Canio rerio (zebra fish))                      | > 1000 mg/l, 96 h                                                          |
| LC0 (Oryzias latipes (Orange-red killfish))         | > 3000 mg/l, 96 h                                                          |
| <b>Toxicity to Aquatic Invertebrates</b>            |                                                                            |
| EC50 (Water flea (daphnia magna))                   | > 1000 mg/l, 24 h                                                          |
| <b>Toxicity to Aquatic Plants</b>                   |                                                                            |
| NOEC                                                | 1640 mg/l, End Point: growth (Green algae (Scenedesmus subspicatus), 72 h) |
| <b>Toxicity to Microorganisms</b>                   |                                                                            |
| EC50 (activated sludge)                             | > 100 mg/l, 3 h                                                            |
| <b>4,4'-Diphenylmethane diisocyanate (101-68-8)</b> |                                                                            |
| <b>Toxicity to Fish</b>                             |                                                                            |
| LC50 (Zebra fish (Brachydanio rerio))               | > 500 mg/l, 24 h                                                           |
| <b>Toxicity to Aquatic Invertebrates</b>            |                                                                            |
| EC50 (Water flea (daphnia magna))                   | > 500 mg/l, 24 h                                                           |





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|                                                      |                |
|------------------------------------------------------|----------------|
| Additive                                             |                |
| Toxicity to Fish                                     |                |
| LC50 (Fathead minnow ( <i>Pimephales promelas</i> )) | 134 mg/l, 96 h |

### Persistence and Degradability

|                               |                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------|
| Gorilla Glue                  |                                                                                      |
| Persistence and Degradability | Biodegradation for this product was 0%, exposure time: 28 days, i.e. not degradable. |
| Biodegradation                | 0 % after 28 days                                                                    |

### Bioaccumulative Potential

|              |                                                                                        |
|--------------|----------------------------------------------------------------------------------------|
| Gorilla Glue |                                                                                        |
| BCF fish 1   | < 1 Oncorhynchus mykiss (rainbow trout), Exposure time: 112 d (does not bioaccumulate) |

**Mobility in Soil** Not available

### Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Sewage Disposal Recommendations:** Do not dispose of waste into sewer.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

## SECTION 14: TRANSPORT INFORMATION

|                         |                             |
|-------------------------|-----------------------------|
| In Accordance with DOT  | Not regulated for transport |
| In Accordance with IMDG | Not regulated for transport |
| In Accordance with IATA | Not regulated for transport |
| In Accordance with TDG  | Not regulated for transport |

## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

|                                                                           |                                                                    |
|---------------------------------------------------------------------------|--------------------------------------------------------------------|
| Gorilla Glue                                                              |                                                                    |
| SARA Section 311/312 Hazard Classes                                       | Immediate (acute) health hazard<br>Delayed (chronic) health hazard |
| Polyisocyanate Prepolymer based on MDI (67815-87-6)                       |                                                                    |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                                                    |
| Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)                 |                                                                    |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                                                    |
| Listed on United States SARA Section 313                                  |                                                                    |
| SARA Section 313 - Emission Reporting                                     | 1.0 %                                                              |
| 4,4'-Diphenylmethane diisocyanate (101-68-8)                              |                                                                    |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                                                    |
| Listed on United States SARA Section 313                                  |                                                                    |
| SARA Section 313 - Emission Reporting                                     | 1.0 %                                                              |
| Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447-40-5)             |                                                                    |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                                                    |

### US State Regulations

|                                                                                                                                                                                                                                                            |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Gorilla Glue                                                                                                                                                                                                                                               |                 |
| State or local regulations                                                                                                                                                                                                                                 |                 |
| This product contains a trace (ppm) amount of phenyl isocyanate (CAS # 103-71-9) and monochlorobenzene (CAS # 108-90-7) as impurities. California Prop 65: Warning! This product contains chemical(s) known to the State of California to be Carcinogenic. |                 |
| Weight %                                                                                                                                                                                                                                                   | Component CAS # |



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|         |                 |          |
|---------|-----------------|----------|
| <1 ppm  | Acetaldehyde    | 75-07-0  |
| 1-5 ppm | Furan           | 100-00-9 |
| <1 ppm  | Propylene Oxide | 75-56-9  |

### Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)

U.S. - New Jersey - Right to Know Hazardous Substance List

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

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) List

### Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447-40-5)

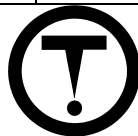
U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

### Canadian Regulations

#### Gorilla Glue

|                      |                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|



### Polyisocyanate Prepolymer based on MDI (67815-87-6)

Listed on the Canadian DSL (Domestic Substances List)

### Polymeric Diphenylmethane Diisocyanate (pMDI) (9016-87-9)

Listed on the Canadian DSL (Domestic Substances List)

|                      |                                                                                                                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WHMIS Classification | Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

Listed on the Canadian DSL (Domestic Substances List)

Listed on the Canadian IDL (Ingredient Disclosure List)

IDL Concentration 0.1 %

|                      |                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Diphenylmethane Diisocyanate (MDI) Mixed Isomers (26447-40-5)

Listed on the Canadian DSL (Domestic Substances List)

|                      |                                                                                                                                                                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WHMIS Classification | Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects<br>Class D Division 2 Subdivision A - Very toxic material causing other toxic effects<br>Class D Division 2 Subdivision B - Toxic material causing other toxic effects |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 02/04/2016

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.



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### GHS Full Text Phrases:

|                                     |                                                                           |
|-------------------------------------|---------------------------------------------------------------------------|
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal) Category 4                                        |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4                          |
| Eye Irrit. 2B                       | Serious eye damage/eye irritation Category 2B                             |
| Resp. Sens. 1                       | Respiratory sensitisation Category 1                                      |
| Skin Irrit. 2                       | Skin corrosion/irritation Category 2                                      |
| Skin Sens. 1                        | Skin sensitization Category 1                                             |
| STOT RE 1                           | Specific target organ toxicity (repeated exposure) Category 1             |
| STOT RE 2                           | Specific target organ toxicity (repeated exposure) Category 2             |
| STOT SE 3                           | Specific target organ toxicity (single exposure) Category 3               |
| H312                                | Harmful in contact with skin                                              |
| H315                                | Causes skin irritation                                                    |
| H317                                | May cause an allergic skin reaction                                       |
| H320                                | Causes eye irritation                                                     |
| H332                                | Harmful if inhaled                                                        |
| H334                                | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H335                                | May cause respiratory irritation                                          |
| H372                                | Causes damage to organs through prolonged or repeated exposure            |
| H373                                | May cause damage to organs through prolonged or repeated exposure         |

### Party Responsible for the Preparation of This Document

The Gorilla Glue Company

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

Gorilla Glue NA GHS SDS