

**SECTION 1: Identification and Company Details****Product Name:** Turf Seam Glue 28.7oz Artificial Grass Seam Adhesive**Product Code:** 1100TM-28

**Manufacturer/ Supplier:** Q.E.P. Co., Inc.  
**Address:** 1001 Broken Sound Pkwy, NW  
Suite A  
Boca Raton, FL 33487

**Emergency Phone:** (800) 424-9300 (24-hour Response / CHEMTREC)**Product Information:** (706) 277-5294**Recommended Use:****SECTION 2: Hazard(s) Identification****Classification of the substance or mixture:**

GSH08 Health hazard

Respiratory Sensitizer 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

**Signal Word:** Danger

Skin irritant 2 H315 Causes skin irritation

Eye irritant 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

**SECTION 3: Composition / Information on Ingredients**

	<b>Weight %</b>	<b>CAS #</b>
4,4'-methylenediphenyl diisocyanate	2.5-10%	101-68-8
diphenylmethanediisocyanate, isomers and homologues	2.5-10%	9016-87-9

#### **SECTION 4: First-Aid Measures**

**Inhalation:** Remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, oxygen should be administered

by qualified personnel. Call a physician or transport to a medical facility.

**Skin Contact:** Clean excess from skin. Immediately wash with water and soap and rinse thoroughly

**Eye Contact:** Rinse open eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.

**Ingestion:** Do not induce vomiting; immediately call for medical help.

**Note to Physician:** No further relevant information available.

#### **SECTION 5: Fire-Fighting Measures**

**Extinguishing Media:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water. Use firefighting methods that suit the environment.

**Hazardous Combustion Products:** Closed containers may forcibly rupture under extreme heat or when contents are contamination with water. Carbon Dioxide (CO<sub>2</sub>) is formed.

**Protection of Firefighters:** Protective clothing and respiratory protective devices.

#### **SECTION 6: Accidental Release Measures**

**Personal Precautions:** Use protective gloves, goggles and suitable protective clothing.

**Environmental Precautions:** Do not allow product to get into drains, soil, or surface water.

**Methods of Clean-up:** Small spillages: Absorb with sand or other inert absorbent. Large spillages: Dam and absorb.

Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Wear necessary protective equipment.

#### **SECTION 7: Handling and Storage**

**Handling Precautions:** Provide good ventilation. Do not use in confined spaces without adequate ventilation and/or respirator. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product.

**Storage:** Keep separate from food, feedstuffs, fertilizers and other sensitive material. Store in closed original container at temperatures between 5°C and 30°C/ 40°F and 86°F. Protect from freezing and direct sunlight.

#### **SECTION 8: Exposure Control / Personal Protection**

**Exposure Guidelines:**

**Engineering Controls:**

**Personal Protective Equipment:**

**Skin Protection** - Permeation resistant gloves (butyl rubber, nitrile rubber, PVC or polyvinyl alcohol).

**Eye/Face Protection** - Glasses with side shields, chemical splash goggles and/or face shield

**Components with limit values that require monitoring at the workplace:**

*101-68-8 4,4'-methylenediphenyl diisocyanate*

**PEL:** *Ceiling limit value: 0.2 mg/m<sup>3</sup>, 0.02 ppm* **REL:** *Long-term value: 0.05 mg/m<sup>3</sup>, 0.005 ppm* **TLV**  
*Long-term value: 0.051 mg/m<sup>3</sup>, 0.005 ppm*

**SECTION 9: Physical and Chemical Properties**

**Appearance:** Reddish brown liquid

**Odor:** Characteristic

**Relative Density:** Not determined

**Specific Gravity:** 1.27

**Odor Threshold:** Not determined

**Solubility:** Not miscible or difficult to mix

**pH:** Not determined

**Partition Coefficient:** Not determined

**Melting Point:** Not determined

**Freezing Point:** Store above 40 °F in cool dry location

**Auto-ignition Temperature:**

**Flash Point:** >93 °C (> 199°F)

**Decomposition Temperature:**

**Evaporation Rate:** Not determined

**Viscosity:** Not determined

**Flammability (Solid/Gas):** Not applicable

**Upper/Lower Flammability:** Not determined Product is not self-igniting

**VOC Content:** <40 grams/Liter

**Vapor Pressure:** Not determined

**Boiling Point:** Not determined

**SECTION 10: Stability and Reactivity**

**Chemical Stability:** Contact with moisture, other materials that react with isocyanates, or temperatures above 350 °F, may cause polymerization.

**Conditions to Avoid:** Moisture. Extreme temperatures.

**Materials to Avoid:** Reacts with amines, caustic alkali solutions, alcohols, ammonia, oxidizers, acids, polyols. Reacts with water forming carbon dioxide- may rupture sealed containers if contaminated with water.

**SECTION 11: Toxicological Information**

**Mixture Toxicity:**

**Acute toxicity:**

**LD/LC50 values that are relevant for classification:**

101-68-8 4,4'-methylenediphenyl diisocyanate

**Ingestion:** LD50 2200mg/kg (mouse)

**Inhalation:** Sensitization possible through inhalation

Oral LD50: >5000mg/kg (rat)

Dermal LD50: >3000 mg/kg (rabbit)

**Skin Contact:** Sensitization possible through skin contact

**Additional toxicological information:** May cause allergic respiratory reaction.

Animal testing have indicated that respiratory sensitization can result from skin contact with MDI. Use skin protection.

Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

The product shows the following dangers according to internally approved calculation methods for precautions:

Harmful

Irritant

**IARC (*International Agency for Research on Cancer*)**

101-68-8 4,4'-methylenediphenyl diisocyanate

3

9016-87-9 diphenylmethanediisocyanate, isomers and homologues 3

**NTP (*National Toxicology Program*)**

None of the ingredients listed

**OSHA-Ca (*Occupational Safety & Health Administration*)**

None of the ingredients is listed

## **SECTION 12: Ecological Information**

**Mobility and Bioaccumulation Potential:** No further relevant information available

**Degradation:** No further relevant information available

**Aquatic Toxicity:** No further relevant information available

**Component Ecotoxicity:** At present time there are no ecotoxicological assessments

## **SECTION 13: Disposal Considerations**

**Disposal:** Must be specially treated adhering to official regulations.

**Wastes or Residues:** Must be specially treated adhering to official regulations.

**Road:** DOT Proper Shipping Name: **Non-Regulated**

DOT Packing Group: N/A

DOT Label: N/A

UN Number: N/A

**Ocean:** Proper Shipping Name: **Non-Regulated**

Sea – IMO/IMDG Class: N/A

UN Number: N/A

Label: N/A

Packing Group: N/A

Marine Pollutant: N/A

EMS: N/A

**Air:** Proper Shipping Name: **Non-Regulated**  
Air – ICAO/IATA Class: N/A  
UN Number: N/A  
Label: N/A  
Sub Class: N/A  
Packing Group: N/A  
Pack Instr. Passenger: N/A  
Pack Instr. Cargo: N/A

## SECTION 15: Regulatory Information

**Status on Substance Lists:** The concentrations shown in this document are maximum levels (weight %) to be used for regulations.

**TSCA:** The components of this product are contained on the chemical substance inventory list and/or exempt

**IARC:** Not carcinogenic

**OSHA PEL's** None

**Federal EPA:** Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA): Requires notification of the national response center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product at level which could require reporting under the statute are:

### Chemical Name

101-68-8 4,4'-methylenediphenyl diisocyanate

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III: Sections 301-304 require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQ) in 40 CFR 355. Components present in this product at level which could require reporting under this statute are:

Chemical Name	CAS Number	% by Weight	RQ
None	None	None	None

Section 311-312 require products be reviewed and applicable EPA Hazard Definitions be identified and made known- **None**

### NJ RTK

### Pennsylvania RTK

**SARA 302** Extremely Hazardous Substances - None

### Massachusetts RTK

### EPA Hazard Classifications:

Acute	Chronic	Fire	Pressure	Reactive
Hazard	Hazard	Hazard	Hazard	Hazard

No No No No No

Section 313 requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all SDSs that are distributed for this material. Components present in this product at level which could require reporting under the statute are: **As**

**Listed**

101-68-8 4,4'-methylenediphenyl diisocyanate

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

**Canada DSL:** All components are on the DSL list or exempt.

**California Proposition 65:** None Listed

**SECTION 16: Other Information**

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Roberts Consolidated makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Roberts Consolidated or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*ICAO: International Civil Aviation Organisation*

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*

*Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A*

*Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1*

*Skin Sens. 1: Sensitisation - Skin, Hazard Category 1*

*STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*

*STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2*

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200).

**HMIS RATING: HEALTH-1, FLAMMABILITY-0, REACTIVITY-0, PERSONAL PROTECTION- B.**

Prepared by: Q.E.P. Co., Inc. Safety & Regulatory Compliance Group, (706) 277-5294

The information herein is given in good faith, but no warranty expressed or implied is made. Roberts Consolidated urges users of this product to evaluate its suitability and compliance with local regulations as Roberts Consolidated cannot foresee the final use of the product, nor the final location of usage.

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