



## GP Roofcoat, Part A

"Proven Performance - Proven Technology"

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# SAFETY DATA SHEET

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier:** GP Roofcoat, Part A  
**Other means of identification:** Polymeric Isocyanate  
**Chemical use and restrictions:** For use in formulating and coating  
For use only by a professional formulator or coater  
**Manufacturer:** TQ3 North America, Inc.  
23 Commerce Road, Unit A  
Fairfield, NJ 07004  
973-882-7900  
**24 Hour emergency response** CHEMTREC 800-424-9300

## SECTION 2. HAZARD(S) IDENTIFICATION

### Emergency Overview

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Inhalation (Category 4), H332

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Respiratory sensitization (Category 1), H334

Skin sensitization (Category 1), H317

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Respiratory system, H373



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### GHS Label elements, including precautionary statements

**Signal word**            Danger

#### **Hazard statement(s)**

H315            Causes skin irritation.  
H317            May cause an allergic skin reaction.  
H319            Causes serious eye irritation.  
H332            Harmful if inhaled.  
H334            May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335            May cause respiratory irritation.  
H373            May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.

#### **Precautionary statement(s)**

P201            Obtain special instructions before use.  
P202            Do not handle until all safety precautions have been read and understood.  
  
P260            Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264            Wash skin thoroughly after handling.  
P271            Use only outdoors or in a well-ventilated area.  
P272            Contaminated work clothing should not be allowed out of the workplace.  
P280            Wear protective gloves/ eye protection/ face protection.  
P302 + P352    IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340    IF INHALED: Remove victim 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.  
  
P308 + P313    IF exposed or concerned: Get medical advice/ attention.  
P321            Specific treatment (see supplemental first aid instructions on this label).  
P333 + P313    If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313    If eye irritation persists: Get medical advice/ attention.  
P362            Take off contaminated clothing and wash before reuse.  
P403 + P233    Store in a well-ventilated place. Keep container tightly closed.  
P405            Store locked up.  
P501            Dispose of contents/ container to an approved waste disposal plant.

#### **NFPA Rating**

Flammability (Red): 1  
Health (Blue): 2  
Reactivity (Yellow): 1

**Hazards not otherwise classified (HNOC) or not covered by GHS - Lachrymator**

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Trade Secret *	Trade Secret *	Trade Secret *
Trade Secret *	Trade Secret *	Trade Secret *

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

### SECTION 4. FIRST-AID MEASURES

**Precautions:** First aid providers should avoid direct contact with this chemical. Wear protective equipment as necessary.

**Eye contact:** Flush immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

**Skin contact: REMOVE FROM SKIN IMMEDIATELY.** Take off all contaminated clothing immediately. Remove adhering matter immediately. Use waterless hand cleaner. Then wash with lots of water and soap.

**After inhalation:** Remove the victim into fresh air. Symptoms include irritation of the respiratory tract of asthmatic reaction.

**After ingestion:** Do not induce vomiting without medical advice.

**Medical Attention:** Consult a physician if any of these events occur.

**General:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

### SECTION 5. FIRE FIGHTING MEASURES

**Flammable properties:** The material can burn if heated. Flashpoint is 230<sup>o</sup> C.

**Suitable extinguishing media:** Water fog or fine spray. Foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Alcohol resistant foams are preferred for large fires. Use water spray to cool fire-exposed containers.

**Unsuitable extinguishing media:** Do not use a solid water stream as it may scatter and spread fire. Use caution when using water, contamination of product will generate carbon dioxide gas.

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**Fire and explosion hazards:** Cool containers / tanks with water spray. In the event of fire and/or explosion do not breathe fumes. Heating/burning can release hazardous gases: carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>). Polymeric MDI decomposes rapidly above 204<sup>o</sup> C.

**Special protective equipment:** Wear protective clothing. In case of respirable dust and/or fumes, use self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as diatomaceous earth, sawdust, vermiculite, or any appropriate readily available material and sweep or shovel absorbed material into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed thoroughly wash the contaminated area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal.

Wear the appropriate personal protective equipment designated in Section 8, remove the leaking container to a containment area and place into an appropriate container to prevent any further spill.

**LARGE SPILL:** Construct temporary dikes of dirt or sand to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as diatomaceous earth, sawdust, vermiculite, or any appropriate readily available material and sweep or shovel adsorbed material into closed containers for disposal. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal.

Wear the appropriate personal protective equipment designated in Section 8, close or cap leaking valves and/or block or plug hole in leaking container. Remove the leaking containers to a containment area and place into an appropriate container to prevent any further spill.

Contain material as described above and call the local fire, police, or appropriate emergency response provider for immediate emergency assistance.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of material into sources of water.

**GENERAL PROCEDURES:** Absorb spill with an emergency spill kit, diatomaceous earth, saw dust or equivalent inert material. Shovel up and dispose of at an appropriate waste disposal facility following applicable laws and regulations.

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### SECTION 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Store product in original containers. Store container in a secure cool, dry, well-ventilated area at 55-85 deg. F. Opened containers should be blanketed with nitrogen gas at atmospheric pressure to avoid reaction with moisture. Contamination with moisture or "basic" compounds can cause dangerous pressure buildup in closed containers.

**HANDLING:** Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Avoid breathing in vapors, mists, and aerosols. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form.

**STORAGE:** Store and warehouse product in an appropriate area or facility. Segregate like materials together to avoid negative chemical reactions. Protect materials from excessive exposure to heat. Store in a cool, well-ventilated area. Store in original container. Keep away from heat and sources of ignition. Ideal storage temperature is 16 – 38<sup>o</sup> C (60 – 100<sup>o</sup>F). Keep away from moisture.

**INCOMPATIBLE MATERIALS:** Will react with amines and acids.

**COMMENTS:** If bulging of containers occurs, transfer to a well-ventilated area and open carefully to relieve pressure then reseal.

### SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**PEL:** Not determined.

**TLV:** Not determined.

**Engineering measures:** Ensure adequate ventilation, especially in confined areas.

**Personal protection equipment:** Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

**Eye protection:** Tightly fitting safety goggles or face-shield as appropriate.

**Hand protection:** Solvent-resistant gloves.

**Skin and body protection:** Solvent-resistant apron and boots. Protective suit. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

**Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment with filter classification: N-95 or if oil/liquid aerosols are present P-95 (42 CFR 84). In USA use a NIOSH/MSHA approved respirator.

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**COMMENTS:** Always practice "good personal hygiene" during and after use of this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. DO NOT eat, drink, or smoke in work areas that contain hazardous chemicals.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

These data do not represent technical or sales specifications.

**Form:** Liquid

**Color:** Dark brown

**Odor:** Musty

**pH:** N.A.

**Boiling point/range:** > 200<sup>o</sup>C (decomposes)

**Melting point/range:** N.D.

**Flash point:** 230<sup>o</sup> C

**Autoignition temperature:** N.D.

**Bulk density:** 1.25 @ 25<sup>o</sup> C

**Explosion limits:** N.D.

**Vapor pressure:** 10<sup>-4</sup> mmHg @ 40<sup>o</sup> C

**Relative density/Specific Gravity:** N.D.

**Vapor density:** N.D.

**Viscosity:** @200 mPas

**Water solubility:** Insoluble

**Solubility:** N.D.

Abbreviations: N.D. - Not Determined

N.A. - Not Applicable

### SECTION 10. STABILITY AND REACTIVITY

**Stability:** Stable at normal conditions. Decomposes on heating.

**Hazardous decomposition products:** No decomposition if used as directed. Under conditions giving combustion, hazardous gases produced may consist of carbon oxides (CO, CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

**Conditions/Materials to avoid:** Keep away from ignition sources. Incompatible with oxidizing and reducing agents. May corrode base metals. Keep out of direct sunlight.

**Reactivity:** Will react rapidly with amines

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Irritation:

Polymeric MDI has an extremely low vapor pressure and it is difficult to get vapor concentration necessary for inhalation toxicity testing. Polymeric MDI caused eye irritation in rabbits which cleared after 24 hours. In skin irritation testing, single doses of 2.5, 3.9, 6.0 and 9.4 mg/kg polymeric MDI to abraded rabbit skin, covered for 24 hours, caused only minor, local, reversible skin damage.

#### Sensitization:

May cause allergy or asthma symptoms of breathing if inhaled. May cause an allergic skin reaction. Isocyanates are known to cause skin and respiratory sensitization in humans. Animal tests have indicated that respiratory sensitization can result from skin contact with isocyanates.

#### Carcinogenicity:

This material does not contain any component that is considered a human carcinogen by IRAC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists), OSHA or NTP (National Toxicology Program).

### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Polymeric MDI – LC<sub>50</sub> Zebra Fish >1000 mg/L; EC<sub>50</sub> Daphnia magna (24 hr) > 1000 mg/L; EC<sub>52</sub> E. coli > 100 mg/L

Persistence/Degradability: Product is not readily biodegradable

Bioaccumulation: Not available

Mobility: Not Available

### SECTION 13. DISPOSAL CONSIDERATIONS

**Provisions relating to waste:** EPA - Resource Conservation and Recovery Act (RCRA) Hazardous and Solid Waste Management Regulations.

**Disposal information:** Dispose of in compliance with all applicable regulations. Can be incinerated by an approved facility that is in compliance with the local regulations. Empty remaining contents. Do not reuse empty containers. This product (in its fresh unused state) is not listed by generic name or trademark name in the U.S. EPA's RCRA regulations and does not possess any of the four identifying characteristics of hazardous waste (ignitability, corrosivity, reactivity or toxicity).

### SECTION 14. TRANSPORTATION INFORMATION

U.S. Hazardous Materials Regulation (DOT 49 CFR):

Not regulated except when shipped in bulk containers (>5000 lbs) where it must be transported as ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID N.O.S. (Methylene

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Diphenyl Diisocyanate), Class 9, UN 3082, PGIII, RQ.

Canadian Transportation of Dangerous Goods (TDG):	Not Regulated
ADR/RID:	Not Regulated
IMO Classification:	Not Regulated
ICAO/ATA Classification:	Not Regulated

### SECTION 15. REGULATORY INFORMATION

#### United States

TSCA Status: All component substances of this mixture are listed on the TSCA inventory.

SARA Title III:

Sec 313:	Methylene diphenyl diisocyanate (MDI), 1 % de minimis CERCLA
RQ:	Methylene diphenyl diisocyanate (MDI), 5000 lbs (2270 kg)

California Proposition 65: The component substances are not listed

#### Canada

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

WHMIS Classification:	D1A: Immediate and serious toxic effects D2A: Material causing other toxic effects (due to respiratory sensitization)
NSNR Status:	All substances in this preparation are listed on the DSL.
NPRI Substances:	Polymethylene polyphenylene isocyanate and Methyl diphenyl diisocyanate (MDI) are NPRI reportable substances (Part I, Group I).

### SECTION 16. OTHER INFORMATION

#### LEGAL DISCLAIMER:

TQ3 urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the printed date. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDS's, we are not and cannot be responsible for SDS's obtained from any source other than ourselves. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.

DATE Written: 07/20/15