

MATERIAL SAFETY DATA SHEET

Section 1 Chemical Product and Company Identification

Product Name: **PG 250**

Chemical Name: Polyurethane Waterproofing Membrane

Manufacturer: Polyguard Products
3801 South Business 45
Ennis, TX 75119

CAS # Mixture
Date of Last Revision: April 24, 2008
Replaces: N/A

For emergency assistance: Polyguard Products (7-5 CST) 800-541-4994 or CHEMTREC (24 Hours) 800-424-9300

Section 2 Hazardous Identification

Over exposure to this product may result in respiratory and skin sensitization.

Under normal conditions of use material is not expected to create any unusual emergency hazards. Skin irritations may be treated by washing affected area with soap and water.

If eyes come in contact with this material, flush at least 15 minutes and seek medical attention immediately.

Avoid inhalation of vapors.

Avoid contact with water.

Exposure routes- Inhalation, absorption, ingestion, skin and/or eye contact.

Acute (Short Term) Health Effects- Inhalation of vapors can cause coughing, tightness in chest with difficulty in breathing and irritation to respiratory tract. Skin contact may result in irritation causing redness, itching and a rash. Eye contact will result in eye irritation, causing redness and itching. Ingestion of the material may cause irritation of the mouth, pharynx, esophagus and stomach.

Chronic (Long Term) Health Effects- This product contains Petroleum hydrocarbon oil and carbon black pigment similar to ones categorized by the International Agency for Research on cancer (IARC) as causing cancer in mice after prolonged and repeated contact. Any potential hazard can be minimized by recommended protective equipment to avoid skin contact and by washing thoroughly after handling.

This product may contain trace amount of Toluene Diisocyanate (TDI). TDI is a material that may reasonably be anticipated to be a carcinogen based on the NTP technical report on rats. In the cited study, laboratory animals gavaged TDI in corn oil developed tumor.

Medical conditions generally aggravated by exposure: Prolonged and repeated exposure may result in respiratory sensitization, asthma like conditions, central nervous depression (dizziness, nausea, headache etc), skin sensitization and allergic skin reactions (rashes, hive-like, acne, itching, etc).

Section 3 Composition

<u>Component</u>	<u>CAS #</u>	<u>Amt (wt %)</u>
Aromatic Polyurethane Mixture	Mixture	25 – 40 %
Residual trace amount of Toluene Diisocyanate	26471-62-5	< 0.2 %
Petroleum Aromatic oil	64741-81-7	20 – 35 %
Carbon Black Pigment	1333-86-4	5 – 12 %
Aliphatic Hydrocarbon Mixture	8052-41-3 64742-47-8	5 – 20 %

Section 4 First Aid Procedure

Inhalation- Remove person to fresh air. If not breathing, give artificial respirations. If breathing is labored, give oxygen. Get medical help immediately. Do not give food or liquids to an unconscious person.

Skin- Wash exposed area thoroughly with soap and water. Remove product soaked clothing and wash before reuse. If redness, itching or burning develops or irritation occurs, seek medical attention.

Ingestion- Give 1 or 2 glasses of water to drink. If gastrointestinal symptoms develop, get medical help immediately. (Do not give anything by mouth to an unconscious person).

Eyes- Immediately flush with plenty water for at least 15 minutes. Keep eyelids open. Seek medical attention immediately.

Section 5 Firefighting Measures

Extinguishing Media- Dry chemical, foam, carbon dioxide and halogenated agents. If water is used, use very large quantities. The reaction between water and hot isocyanate may be vigorous.

Flash Point- 152 F (66.7 C) COC

Flammable limits LEL- 0.7 % UEL- 6.0 %

Auto ignition temperature – Not available

Special fire fighting procedures- Wear self contained breathing apparatus with full face piece and protective clothing.

Unusual fire or explosion hazardous- Water contamination will produce carbon dioxide. Do not reseal contaminated containers as pressure buildup may result in rupturing of the container.

Hazardous materials formed during fire or decomposition- Carbon dioxide, carbon monoxide, and nitrogen oxides trace amounts of hydrogen cyanide.

Section 6 Accidental Release Measures

Secure area from further entry from unauthorized personal. Don proper personal protective equipment before handling spilled material. Approach spill from an uphill and upwind position. Prevent material from entering sewers and waterways. Soak up material with absorbent and shovel into a chemical waste container. Cover the container but do not seal, and remove from work area. Use decontamination solution of 0.5% liquid detergent, 3-8 % concentrated ammonium hydroxide and remaining water. Clean the spill area with the detergent solution.

Engineering measures- Local or general exhaust required in an enclosed area or when there is inadequate ventilation. Provide eyewash and safety shower in work area.

Personal Protective Equipment

Eye/face protection- chemical tight goggles, full face shield in addition if splashing is possible.

Skin protection- Wear nitrile, neoprene, or butyl rubber gloves. Tyvek, neoprene, butyl, and nitrile based clothing have excellent resistance to urethane based products.

Respiratory Protection- Wear MSHA/NIOSH approved organic vapor chemical or charcoal cartridge. If any component exceeds the limits listed above, a supplied air respirators should be worn. Self contained breathing apparatus should be used for fire fighting.

Hygiene practices: Wash hands with soap and water before eating, drinking, smoking or using the toilet facilities. Keep away from children.

Section 9 Physical and Chemical Properties

Appearance- Black, aromatic odor, solvent based coating

Boiling Point- 300 -550 F (148.8 – 288 F)

Evaporation rate- (Butyl Acetate =1) < 1

Vapor density (air=1) > 1

Solubility in Water - Insoluble

Specific Gravity (H₂O=1) – 1.0

Weight per Gal- 8.33

VOC (g/l) - < 100 g/l

Section 10 Stability and Reactivity

Stability- Stable under normal conditions

Conditions to avoid- Water contact, alcohol, amines, acids and alkalis. Keep away from sources of ignition such as fire, flame, sparks, etc.

Incompatibilities- This material will react with any materials containing active hydrogen groups such as water, alcohols, ammonia, amines, alkalis and acids.

Hazardous polymerization- May occur. High temperatures in the presences of alkalis, amines, and metal compounds will accelerate polymerization. Possible evolution of carbon dioxide gas may rupture closed containers.

Section 11 Toxicological Information

Eye irritation: irritant

Skin irritation: irritant. and sensitizer

Actual Dermal Toxicity- N/A

Acute oral Toxicity: N/A

Acute Inhalation Toxicity: N/A

Section 12 Ecological Information

No data is available

Section 13 Disposal Considerations

Dispose of in accordance with local, state, and federal regulations.
Empty containers contain residues and can be dangerous.

Section 14 Transportation Information

DOT Ground: Not Regulated

Section 15 Regulatory Information

All components are listed on the US TSCA inventory.

SARA Title III- Section 311/312 Hazard classes

Immediate/Acute Health effects- Yes

Delayed/Chronic Health effects- Yes

Fire Hazard- No

Sudden Release of Pressure Hazard- No

Reactivity Hazard- No

OSHA- This product has been evaluated and determined to be hazardous as defined in OSHA's Hazard Communication Standard.

SARA III-The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372:
Toluene Diisocyanate CAS # 26471-62-5

California Proposition 65

This product contains the following substance known to the state of California to cause cancer-

Toluene Diisocyanate

4-6 fused ring polynuclear aromatic hydrocarbons

This product contains the following substance known to the state of California to cause reproductive harm.

None listed

New Jersey RTK Label Information

Carbon Black 1333-86-4

Toluene Diisocyanate 26471-62-5

HMIS Rating: Health- 2

Flammability-2

Reactivity- 1

Protection: G (Gloves, goggles, coverall/apron, respirator)

Section 16 Additional Information

The information in this document is based on our current knowledge and is intended to describe the product for the purpose of Health, Safety and Environmental requirements only. It should be not therefore be construed as guaranteeing any specific property of the product. Advice in this

document relates only to the product as originally supplied. Where other components are added to the processing of this product, advice should be sought on their safe handling and use.

The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Additional technical information is available on the website at www.polyguardproducts.com