

# Material Safety Data Sheet

## Polyguard RD-6 Pipeline Tape, 600 UV 350, 600, 610, 606 membranes

### 1. Product and company identification

<b>Product name</b>	: Polyguard RD-6 Pipeline Tape, 600 UV 350, 600, 610, 606 membranes
<b>Synonym</b>	: Not available.
<b>Trade name</b>	: Not available.
<b>Material uses</b>	: Polymer modified bitumen tape used to protect pipes from exterior corrosion.
<b>Code</b>	: Not available.
<b>Supplier/Manufacturer</b>	: Polyguard Products Inc. 3801 South Interstate 45 Ennis, TX 75119 Tel: (800)541-4994
<b>MSDS authored by</b>	: KMK Regulatory Services Inc.
<b>In case of emergency</b>	: CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887

### 2. Hazards identification

#### Emergency overview

<b>Physical state</b>	: Solid. [Tape.]
<b>Color</b>	: Black.
<b>Odor</b>	: Asphalt. [Slight]
<b>Signal word</b>	: CAUTION!
<b>Hazard statements</b>	: MAY CAUSE EYE IRRITATION.
<b>Precautionary measures</b>	: Avoid contact with eyes. Wash thoroughly after handling.
<b>Routes of entry</b>	: Routes of entry anticipated: Dermal contact. Routes of entry not anticipated: Oral, Inhalation

#### Potential acute health effects

<b>Inhalation</b>	: Slightly irritating to respiratory system if product is heated to a molten state.
<b>Ingestion</b>	: No known significant effects or critical hazards.
<b>Skin</b>	: Slightly irritating to the skin.
<b>Eyes</b>	: Slightly irritating to the eyes.

#### Potential chronic health effects

<b>Chronic effects</b>	: No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.
<b>Target organs</b>	: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Ingestion</b>	: No known significant effects or critical hazards.



## 2. Hazards identification

- Skin** : No known significant effects or critical hazards.
- Eyes** : Adverse symptoms may include the following:  
irritation  
watering  
redness
- Medical conditions aggravated by over-exposure** : None known.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

Name	CAS number	%
Petroleum Bitumen	8052-42-4	60 - 100
Calcium Carbonate <sup>1</sup>	471-34-1	5 - 10

Calcium Carbonate is not in its respirable form and is a constituent of the mixture.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of skin irritation, flush skin with plenty of water for at least 20 minutes. Get medical attention if irritation persists.
- Inhalation** : Not a likely route of exposure. Product is a solid tape.
- Ingestion** : Not a likely route of exposure. Product is a solid tape.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific treatment. Treat symptomatically.

## 5. Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.
- Extinguishing media**
- Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable** : None known.
- Special exposure hazards** : No specific fire or explosion hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides  
sulfur oxides.  
low MW hydrocarbons.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Special remarks on fire hazards** : Not available.



## 5. Fire-fighting measures

**Special remarks on explosion hazards** : Not available.

## 6. Accidental release measures

**Personal precautions** : No special precaution is required.

**Environmental precautions** : Not applicable.

### Methods for cleaning up

**Spill** : Due to the physical nature of this product, spills are not possible.

## 7. Handling and storage

**Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material.

**Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not store in unlabeled containers.

## 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>		<b>TWA (8 hours)</b>			<b>STEL (15 mins)</b>			<b>Ceiling</b>			
<b>Ingredient</b>	<b>List name</b>	<b>ppm</b>	<b>mg/m<sup>3</sup></b>	<b>Other</b>	<b>ppm</b>	<b>mg/m<sup>3</sup></b>	<b>Other</b>	<b>ppm</b>	<b>mg/m<sup>3</sup></b>	<b>Other</b>	<b>Notations</b>
Petroleum asphalt	US ACGIH 3/2012	-	0.5	-	-	-	-	-	-	-	[a]
	AB 4/2009	-	5	-	-	-	-	-	-	-	[3] [b]
	BC 4/2012	-	0.5	-	-	-	-	-	-	-	[c]
	ON 7/2010	-	0.5	-	-	-	-	-	-	-	[a]
	QC 9/2011	-	5	-	-	-	-	-	-	-	[b]
Calcium carbonate	AB 4/2009	-	10	-	-	-	-	-	-	-	[3]
		-	10	-	-	-	-	-	-	-	[d]

[3]Skin sensitization

**Form:** [a]Inhalable fraction [b]Fume [c]Inhalable fume [d]Total dust

Consult local authorities for acceptable exposure limits.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal protection**



## 8. Exposure controls/personal protection

<b>Respiratory</b>	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>Hands</b>	: Gloves complying with an approved standard should be worn at all times when handling this product if a risk assessment indicates this is necessary.
<b>Eyes</b>	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure.
<b>Skin</b>	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Environmental exposure controls</b>	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
<b>Other protection</b>	: Not available.
<b>Personal protective equipment (Pictograms)</b>	: Not available.

## 9. Physical and chemical properties

<b>Physical state</b>	: Solid. [Tape.]
<b>Flash point</b>	: Open cup: >273.89°C (>525°F)
<b>Burning time</b>	: Not available.
<b>Burning rate</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Flammable limits</b>	: Not available.
<b>Color</b>	: Black.
<b>Odor</b>	: Asphalt. [Slight]
<b>Taste</b>	: Not available.
<b>Molecular weight</b>	: Not applicable.
<b>Molecular formula</b>	: Not applicable.
<b>pH</b>	: Not applicable.
<b>Boiling/condensation point</b>	: Not applicable.
<b>Melting/freezing point</b>	: Not applicable.
<b>Critical temperature</b>	: Not applicable.
<b>Relative density</b>	: 1.09
<b>Vapor pressure</b>	: Not applicable.
<b>Vapor density</b>	: Not applicable.
<b>Volatility</b>	: Not applicable.
<b>Odor threshold</b>	: Not available.
<b>Evaporation rate</b>	: Not applicable.
<b>SADT</b>	: Not applicable.
<b>Viscosity</b>	: Not applicable.
<b>Ionicity (in water)</b>	: Not available.
<b>Dispersibility properties</b>	: Not applicable.
<b>Solubility</b>	: Insoluble in water.



## 9. Physical and chemical properties

**VOC = Volatile Organic Compound** : Not available.

**Physical/chemical properties comments** : Not available.

## 10. Stability and reactivity

**Chemical stability** : The product is stable.

**Conditions to avoid** : Keep away from heat, sparks and flame.

**Incompatible materials** : No specific data.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Petroleum asphalt	LD50 Oral	Rat	>5000 mg/kg	-
Calcium carbonate	LD50 Oral	Rat	6450 mg/kg	-

### Chronic toxicity

There is no data available.

### Irritation/Corrosion

There is no data available.

### Sensitizer

There is no data available.

### Carcinogenicity

#### Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
Petroleum Bitumen	-	3	-	A4	-	+
Benzene, ethenyl-, polymer with 1, 3-butadiene	-	3	-	-	-	None.

### Mutagenicity

There is no data available.

### Teratogenicity

There is no data available.

### Reproductive toxicity

There is no data available.

**Synergistic products** : Not available.



## 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Calcium carbonate	Acute LC50 56000 ppm Fresh water Chronic NOEC 61 mg/g Fresh water	Fish - Gambusia affinis - Adult Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours 28 days

### Persistence/degradability

There is no data available.

**Partition coefficient: n-octanol/water** : Not available.

**Bioconcentration factor** : Not available.

**Mobility** : Not available.

**Toxicity of the products of biodegradation** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed to the sewer. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out.

**Waste stream** : Not available.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>TDG Classification</b>	Not regulated.	-	-	-		-
<b>IMDG Class</b>	Not regulated.	-	-	-		-
<b>IATA-DGR Class</b>	Not regulated.	-	-	-		-

PG\* : Packing group

Exemption to the above classification may apply.

**AERG** : Not applicable.



## 15. Regulatory information

**WHMIS (Canada)** : Not controlled under WHMIS (Canada).

### Canadian lists

**Canadian NPRI** : None of the components are listed.

**CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : All components are listed or exempted.

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

### International regulations

**International lists** :

- Australia inventory (AICS)**: All components are listed or exempted.
- China inventory (IECSC)**: All components are listed or exempted.
- Japan inventory**: Not determined.
- Korea inventory**: All components are listed or exempted.
- Malaysia Inventory (EHS Register)**: Not determined.
- New Zealand Inventory of Chemicals (NZIoC)**: All components are listed or exempted.
- Philippines inventory (PICCS)**: All components are listed or exempted.
- Taiwan inventory (CSNN)**: Not determined.

**Chemical Weapons** : Not listed

### **Convention List Schedule I Chemicals**

**Chemical Weapons** : Not listed

### **Convention List Schedule II Chemicals**

**Chemical Weapons** : Not listed

### **Convention List Schedule III Chemicals**

## 16. Other information

### History

**Date of issue** : 09/15/2013

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**Version** : 3

**Revised Section(s)** : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

