

# 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>Material uses</b>	: Polymer modified bitumen tape used to protect pipes from exterior corrosion.
<b>Supplier/Manufacturer</b>	: Polyguard Products 3801 South Business 45 Ennis, TX 75119 Tel: (800)541-4994
<b>Responsible name</b>	: Atrion Regulatory Services, Inc.
<b>In case of emergency</b>	: CHEMTREC, U.S. : +1-800-424-9300 International: +1-703-527-3887

### 2. Hazards identification

<b>Physical state</b>	: Solid. [Black.]
<b>Odor</b>	: Asphalt. [Slight]
<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Emergency overview</b>	: MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.  Slightly irritating to the skin. Avoid exposure - obtain special instructions before use. Contains material that can cause target organ damage. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Routes of entry</b>	: Dermal contact.
<b>Potential acute health effects</b>	
<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.
<b>Potential chronic health effects</b>	
<b>Chronic effects</b>	: Contains material that can cause target organ damage.
<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>	: Contains material which causes damage to the following organs: skin.
<b>Over-exposure signs/symptoms</b>	
<b>Inhalation</b>	: No specific data.
<b>Ingestion</b>	: No specific data.
<b>Skin</b>	: No specific data.
<b>Eyes</b>	: Adverse symptoms may include the following: irritation watering redness
<b>Medical conditions aggravated by over-exposure</b>	: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

### 3 . Composition/information on ingredients

#### United States

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

#### Canada

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. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- 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. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### 5 . Fire-fighting measures

- Flammability of the product** : No specific fire or explosion hazard.
- Extinguishing media**
  - Suitable** : Use an extinguishing agent suitable for the surrounding fire.
  - Not suitable** : None known.
- 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.

## 6 . Accidental release measures

### Methods for cleaning up

**Small 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. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**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. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers.

## 8 . Exposure controls/personal protection

### United States

#### Product name

Petroleum Bitumen

#### Exposure limits

**ACGIH TLV (United States, 1/2007).**

TWA: 0.5 mg/m<sup>3</sup> 8 hour(s). Form: Fume

**NIOSH REL (United States, 12/2001).**

CEIL: 5 mg/m<sup>3</sup> 15 minute(s). Form: Fume

Calcium Carbonate

**OSHA PEL (United States, 11/2006).**

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Respirable fraction

TWA: 15 mg/m<sup>3</sup> 8 hour(s). Form: Total dust

### Canada

#### Product name

Petroleum Bitumen

#### Exposure limits

**CA Alberta Provincial (Canada, 10/2006).**

8 hrs OEL: 5 mg/m<sup>3</sup> 8 hour(s). Form: Fume

8 hrs OEL: 5 mg/m<sup>3</sup> 8 hour(s).

**CA British Columbia Provincial (Canada, 7/2007).**

TWA: 0.5 mg/m<sup>3</sup>, (as benzene-soluble aerosol) 8 hour(s). Form: Inhalable fume

**CA Ontario Provincial (Canada, 3/2007).**

TWAEV: 0.5 mg/m<sup>3</sup>, (benzene soluble aerosol) 8 hour(s). Form: The notation "inhalable" following the name of an agent in this Schedule means that size fraction of the airborne particulate deposited anywhere in the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the American Conference of Governmental Industrial Hygienists (ACGIH) particle size-selective criteria; and (b) has the cut point of 100 microns at 50 per cent collective efficiency.

**CA Quebec Provincial (Canada, 12/2006).**

TWAEV: 5 mg/m<sup>3</sup> 8 hour(s). Form: fume

Calcium Carbonate

**CA Alberta Provincial (Canada, 10/2006).**

8 hrs OEL: 10 mg/m<sup>3</sup> 8 hour(s).

**CA Ontario Provincial (Canada, 3/2007).**

TWAEV: 10 mg/m<sup>3</sup> 8 hour(s).




**CA Quebec Provincial (Canada, 12/2006).**

TWAEV: 10 mg/m<sup>3</sup> 8 hour(s). Form: Total dust.

## 8 . Exposure controls/personal protection

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

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.
- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Eyes** : Safety glasses.
- Skin** : Overalls buttoned to the neck and wrist.
- Respiratory** : A respirator is not needed under normal and intended conditions of use.
- Hands** : Chemical-resistant gloves.
- Personal protective equipment (Pictograms)** :
- 


- HMIS Code/Personal protective equipment** : B
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9 . Physical and chemical properties

- Physical state** : Solid. [Black.]
- Flash point** : Open cup: >273.89°C (>525°F)
- Odor** : Asphalt. [Slight]
- VOC** : 0 g/l
- Solubility** : Insoluble in the following materials: cold water and hot water.  
Soluble in the following materials: Ketone and aromatic hydrocarbon solvents.

## 10 . Stability and reactivity

- Stability** : The product is stable.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Conditions of reactivity** : Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.  
Non-flammable in the presence of the following materials or conditions: heat.

## 11 . Toxicological information

### Acute toxicity

Product/ingredient name	Species	Dose	Result	Exposure
Calcium Carbonate	Rat	6450 mg/kg	LD50 Oral	-

**Inhalation** : Slightly irritating to respiratory system if product is heated to a molten state.

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

**Skin** : Slightly irritating to the skin.

**Eyes** : Slightly irritating to the eyes.

### Carcinogenicity

#### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Petroleum Bitumen	A4	3	-	+	-	-

## 12 . Ecological information

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

### Aquatic ecotoxicity

Product/ingredient name	Test	Species	Exposure	Result
Calcium Carbonate	-	Fish	96 hours	Acute LC50 >56000000 ug/L

**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. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

**AERG** : Not applicable.

### Regulatory information

**DOT/ TDG / IMDG/ IATA** : Not regulated.

## 15 . Regulatory information

### United States

**HCS Classification** : Target organ effects

**U.S. Federal regulations** : **United States inventory (TSCA 8b)**: All components are listed or exempted.

## 15 . Regulatory information

**SARA 302/304/311/312 extremely hazardous substances:** No products were found.  
**SARA 302/304 emergency planning and notification:** No products were found.  
**SARA 302/304/311/312 hazardous chemicals:** Petroleum Bitumen; Styrene polymer with 1,3-Butadiene; Calcium Carbonate  
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification**  
 Petroleum Bitumen: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Styrene polymer with 1,3-Butadiene: Immediate (acute) health hazard; Calcium Carbonate: Immediate (acute) health hazard

**Clean Water Act (CWA) 307:** No products were found.

**Clean Water Act (CWA) 311:** No products were found.

**Clean Air Act (CAA) 112 accidental release prevention** No products were found.

**Clean Air Act (CAA) 112 regulated flammable substances** No products were found.

**Clean Air Act (CAA) 112 regulated toxic substances** No products were found.

### State regulations

- Connecticut Carcinogen Reporting:** None of the components are listed.
- Connecticut Hazardous Material Survey:** None of the components are listed.
- Florida substances:** None of the components are listed.
- Illinois Chemical Safety Act** None of the components are listed.
- Illinois Toxic Substances Disclosure to Employee Act** None of the components are listed.
- Louisiana Reporting:** None of the components are listed.
- Louisiana Spill:** None of the components are listed.
- Massachusetts Spill:** None of the components are listed.
- Massachusetts Substances:** The following components are listed: Petroleum bitumen fumes
- Michigan Critical Material:** None of the components are listed.
- Minnesota Hazardous Substances:** None of the components are listed.
- New Jersey Hazardous Substances:** The following components are listed: Petroleum bitumen fumes
- New Jersey Spill:** None of the components are listed.
- New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.
- New York Acutely Hazardous Substances:** None of the components are listed.
- New York Toxic Chemical Release Reporting:** None of the components are listed.
- Pennsylvania RTK Hazardous Substances:** The following components are listed: Petroleum Bitumen
- Rhode Island Hazardous Substances:** None of the components are listed.

### California Prop. 65

No products were found.

### Canada

#### WHMIS (Canada)

- : Not controlled under WHMIS (Canada).

#### Canadian lists

- : **CEPA Toxic substances:** None of the components are listed.
- Canadian ARET:** None of the components are listed.
- Canadian NPRI:** None of the components are listed.
- Alberta Designated Substances:** None of the components are listed.
- Ontario Designated Substances:** None of the components are listed.
- Quebec Designated Substances:** None of the components are listed.

#### Canada inventory

- : **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

- : This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

## 16 . Other information

**Label requirements** : MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

**Hazardous Material Information System (U.S.A.)** :

### HAZARD RATINGS

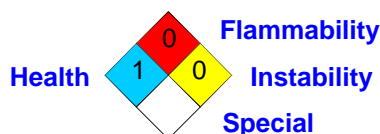
Health	*	1
Fire hazard		0
Physical Hazard		0
Personal protection		B

4- Extreme  
3- Serious  
2- Moderate  
1- Slight  
0- Minimal

See section 8 for more detailed information on personal protection.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** :



**References** : ANSI Z400.5, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005.

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### 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.