

Material Safety Data Sheet

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

1. Product and company identification

Product name	: Polyguard RD-6 Pipeline Tape, 600 UV 350, 600, 610, 606 membranes
Material uses	: Polymer modified bitumen tape used to protect pipes from exterior corrosion.
Supplier/Manufacturer	: Polyguard Products, Inc. 3801 South Interstate 45 Ennis, TX 75119 Tel: (800)541-4994
MSDS authored by	: KMK Regulatory Services Inc.
In case of emergency	: CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887

2. Hazards identification

Emergency overview

Physical state	: Solid. [Tape.]
Color	: Black.
Odor	: Asphalt. [Slight]
Signal word	: CAUTION!
Hazard statements	: MAY CAUSE EYE AND SKIN IRRITATION.
Precautionary measures	: Do not get in eyes. Avoid contact with skin and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

OSHA/HCS status : This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Routes of entry : Dermal contact.

Potential acute health effects

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.

Potential chronic health effects

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

Over-exposure signs/symptoms

Inhalation	: No specific data.
Ingestion	: No specific data.
Skin	: Adverse symptoms may include the following: irritation redness
Eyes	: No specific data.
Medical conditions aggravated by over-exposure	: None known.

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

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

Canada

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

Mexico

Name	CAS number	UN number	%	IDLH	Classification			
					H	F	R	Special
Petroleum Bitumen	8052-42-4	Not regulated.	60 - 100	-	1	1	0	-
Calcium Carbonate ¹	471-34-1	Not regulated.	10 - 30	-	0	0	0	-

¹Calcium 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** : Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.
- Inhalation** : Move exposed person to fresh air. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- 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, CO₂, water spray (fog) or foam.
 - Not suitable** : None known.
- Hazardous decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
- 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

- Personal precautions** : Because of the nature of this material, spills are not likely to occur. Disposed of unused material in accordance with local regulations.
- Methods for cleaning up**
- Small spill** : Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
 - Large spill** : Not likely to occur.

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 ingest. Avoid contact with eyes, skin and clothing. Empty containers retain product residue and can be hazardous.

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

United States

Ingredient	Exposure limits
Petroleum Bitumen	ACGIH TLV (United States, 1/2008). TWA: 0.5 mg/m ³ 8 hour(s). Form: Fume
Calcium Carbonate	NIOSH REL (United States, 6/2008). CELL: 5 mg/m ³ 15 minute(s). Form: Fume OSHA PEL (United States, 11/2006). TWA: 5 mg/m ³ 8 hour(s). Form: Respirable fraction TWA: 15 mg/m ³ 8 hour(s). Form: Total dust

Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m ³	Other	ppm	mg/m ³	Other	ppm	mg/m ³	Other	Notations
Petroleum asphalt	US ACGIH 2/2010	-	0.5	-	-	-	-	-	-	-	[a]
	AB 4/2009	-	5	-	-	-	-	-	-	-	[3] [b]
	BC 9/2010	-	0.5	-	-	-	-	-	-	-	[c]
	ON 7/2010	-	0.5	-	-	-	-	-	-	-	[a]
Calcium carbonate	QC 6/2008	-	5	-	-	-	-	-	-	-	[b]
	US ACGIH 11/2006	-	5	-	-	-	-	-	-	-	[d]
	-	-	15	-	-	-	-	-	-	-	[e]
	AB 4/2009	-	10	-	-	-	-	-	-	-	[3]
	QC 6/2008	-	10	-	-	-	-	-	-	-	[e]

[3]Skin sensitization

Form: [a]Inhalable fraction. [b]Fume [c]Inhalable fume [d]Respirable fraction [e]Total dust

Mexico

Occupational exposure limits

Ingredient	Exposure limits
Petroleum Bitumen	NOM-010-STPS (Mexico, 9/2000). LMPE-CT: 10 mg/m ³ 15 minute(s). Form: smoke LMPE-PPT: 5 mg/m ³ 8 hour(s). Form: smoke
Calcium Carbonate	ACGIH TLV (United States, 11/2006). TWA: 5 mg/m ³ 8 hour(s). Form: Respirable fraction TWA: 15 mg/m ³ 8 hour(s). Form: Total dust

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : 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 : No special ventilation requirements. 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 : Ensure that eyewash stations and safety showers are close to the workstation location. 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.

Personal protection

8. Exposure controls/personal protection

- Respiratory** : Not required under normal conditions of use. 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.
- Hands** : Use gloves appropriate for work or task being performed. Recommended: Leather gloves.
- Eyes** : Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.
- Skin** : 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. Recommended: Lab coat.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9. Physical and chemical properties

- Physical state** : Solid. [Tape.]
- Flash point** : Open cup: >273.89°C (>525°F) [Product does not sustain combustion.]
- Color** : Black.
- Odor** : Asphalt. [Slight]
- Relative density** : 1.09
- Solubility** : Insoluble in water.

10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials.
- Hazardous decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
- 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 Bitumen	LD50 Oral	Rat	>5000 mg/kg	-
Calcium Carbonate	LD50 Oral	Rat	6450 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Calcium carbonate	Skin - Moderate irritant	Rabbit	-	-	-

Carcinogenicity

Classification

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

- IDLH** : Not 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 >56000000 ug/L Fresh water	Fish - Gambusia affinis - Adult	96 hours

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. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. 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. 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 emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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

International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG* : Packing group

Exemption to the above classification may apply.

AERG : Not applicable.

15. Regulatory information

United States

HCS Classification : Not classified.

U.S. Federal regulations : **TSCA 8(a) IUR Exempt/Partial exemption**: Not determined
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 Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

State regulations

Massachusetts : The following components are listed: Petroleum asphalt

New York : None of the components are listed.

New Jersey : The following components are listed: Petroleum asphalt

Pennsylvania : The following components are listed: Petroleum asphalt

California Prop. 65

No products were found.

Canada

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

Canadian lists

Canadian NPRI : None of the components are listed.

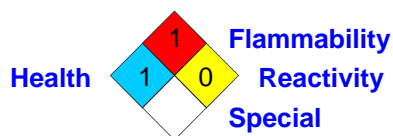
CEPA Toxic substances : None of the components are listed.

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.

Mexico

Classification :



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.
 - New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.
 - Philippines inventory (PICCS):** All components are listed or exempted.

16. Other information

Label requirements : MAY CAUSE EYE AND SKIN IRRITATION.

Hazardous Material Information System (U.S.A.) : **Health** : 1 **Flammability** : 0 **Physical hazards** : 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

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

National Fire Protection Association (U.S.A.) : **Health** : 1 **Flammability** : 0 **Instability** : 0

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History

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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.



Dr. Luc Séguin, PhD chemist, 25 years as a professional in regulatory compliance



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