

Material Safety Data Sheet

1. Product and Company Identification

Product name	Steel Seal
Supplier/Manufacturer:	Refer to the product technical data sheets
In case of emergency	Polyguard Products, Inc 3801 South Interstate 45 Ennis, TX 75119 Tel: (800) 541-4994
In case of emergency	CHEMTREC, US 1-800-424-9300 International 1-703-527-3887

2. Hazards identification

Physical state:	Solid
Odor:	Asphalt (slight)
Emergency Overview:	WARNING! Product is not flammable but will burn under fire conditions. Eye contact with rubberized asphalt residue on hands can cause irritation. Skin contact with rubberized asphalt can cause irritation. Contact with heated material may casue thermal burns. Inhalation from heated product may cause irritation of nose, throat and respiratory system. Potential cancer hazard based on animal data.
Potential acute health effects	
Inhalation:	Slightly irritating to respiratory system if heated to a molten state.
Ingestion:	No known significant effects or critical hazards.
Skin:	Slightly irritating to the skin
Eyes:	No known significant effects or critical hazards.
Potential chronic health effects	
Chronic effects:	Contains materials that can cause target organ damage.
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:	Contains materials which cause damage to the following organs: skin
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 overexposure:	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	471-34-1	10- 30

Canada

Name	CAS number	%
Petroleum Bitumen	8052-42-4	60-100
Calcium Carbonate	471-34-1	10- 30

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:	Not likely to occur under normal use. Possible exposure to toxic fumes if burned.
Ingestion:	Not likely to occur under normal use. 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 Sulfur oxides Low MW hydrocarbons
Special protective equipment:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in a positive pressure mode.

6. Accidental release measures

Personal precautions:	No special measures required.
Environmental precautions:	Not applicable
Methods for cleaning up	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 material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in your eyes or on your 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 and can be hazardous. Do not reuse containers.

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 to use. Do not store in unlabeled containers.

8. Exposure controls/personal protection

Product name Petroleum Bitumen	United States Exposure limits ACGIH TLV (United States, 1/2008) TWA: 0.5 mg/m ³ 8 hour(s) Form: Fume NIOSH REL (United States, 12/2001) CEIL: 5 mg/m ³ 15 minute(s). Form: Fume
Calcium Carbonate	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
Product name Petroleum Bitumen	Canada Exposure limits CA Alberta Provincial (Canada, 10/2006). 8 hrs OEL: 5 mg/m ³ 8 hour(s) Form: Fume 8 hrs OEL: 5 mg/m ³ 8 hour(s) CA British Columbia Provincial (Canada, 7/2007). TWA: 0.5 mg/m ³ 8 hour(s), (as benzene- soluble aerosol) 8 hour(s) Form: Inhalable fume. CA Ontario Provincial (Canada, 3/2007). CA Quebec Provincial (Canada, 12/2006). TWAEV: 5 mg/m ³ 8 hour(s). Form: dust
Calcium Carbonate	CA Alberta Provincial (Canada, 10/2006). 8 hrs OEL: 10 mg/m ³ 8 hour(s) CA Ontario Provincial (Canada, 3/2007). TWAEV: 10 mg/m ³ 8 hour(s) CA Quebec Provincial (Canada, 12/2006). TWAEV: 10 mg/m ³ 8 hour(s). Form: Total dust CA Alberta Provincial (Canada, 10/2006).

Calcium Carbonate is not in its respirable form and is a constituent of the mixture.
Consult local authorities for acceptable exposure limits.

8. Exposure controls/personal protection

Recommended monitoring procedure:	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 protection.
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 measure:	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 work station location.
Personal protection	
Eyes:	Safety glasses
Skin:	Overall buttoned at the neck and wrist
Respiratory:	A respirator is not needed under normal and intended conditions of use.
Hands:	Chemical resistant gloves
HMIS Code/Personal protective equipment	B
Environmental exposure control	Emission 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
Flash point	Not Determined
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:	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: heat

11. Toxicological information

Acute Toxicity

Product/ingredient name	Species	Dose	Result	Exposure
Calcium Carbonate	Rat	6450 mg/kg	LD 50 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 or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Species	Exposures	Results
Calcium Carbonate	-	Fish	96 hours	Acute LC >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.

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 Control / Personal Protection for additional handling information and protection of employees.

14. Transportation information

AERG: Not applicable
Regulatory Information:
DOT/TDG/IMDG/IATA Not regulated

15. Regulatory information

United States

U.S. Federal regulations:

United States inventory (TSCA 8b): All components are listed or exempted.
SARA 302/304/311/312 extremely hazardous substance: 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, and 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 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 Substance 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
Michigan Critical Material: None of the components are listed
Minnesota Hazardous Substance: None of the components are listed.
New Jersey Hazardous Substance: The following components are listed: Petroleum Bitumen
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 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 components are listed

California Prop. 65

No product were found

15. Regulatory information

Canada

WHMIS (Canada) Not controlled under WHMIS (Canada)

Canadian lists

CEPA Toxic substance: 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
All components are listed or exempted.

Canada Inventory

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

International regulations

International list: 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

Hazardous Material

Information System (USA)

MAY CAUSE SKIN IRRITATION.

HAZARD RATING

Health -	1	4- Extreme
Fire hazard-	0	3- Serious
Physical hazard	0	2- Moderate
Personal Protection	B	1- Slight
		0- Minimal

See section 8 for more detailed information of personal protection.

National Fire Protection

Association (USA)

Health -	1
Flammability-	0
Instability	0
Special	

References

ANSI Z400.5, MSDS standard, 2004.-Manufacturer's Material Safety Data Sheet-29CFR Part 1910.1200 OSHA MSDS Requirements.-49 CFR 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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Version

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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.