

**SECTION 1 IDENTIFICATION**

<b>Product Name</b>	Derbigum XPS
<b>Recommended Use</b>	Waterproofing membrane for low-sloped roofs
<b>Restrictions</b>	Contact Manufacturer
<b>Manufacturer</b>	DERBIGUM Americas, Inc
<b>Address</b>	4821 Chelsea Avenue Kansas City, MO 64130
<b>Phone Number</b>	(800) 727-9872
<b>Emergency Number</b>	(800) 424-9300 (CHEMTREC)

**SECTION 2 HAZARDS**

**GHS Classification** Specific Target Organ Toxicity, Repeated Exposure: Hazard Category 1

**Hazard Pictographs**



**Signal Word**

**DANGER**

**Hazard Statements**

H372 - Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements**

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from open flames. - NO SMOKING  
P260 - Do not breathe fume, gas, vapors  
P264 - Wash hands, forearms and face thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P273 - Avoid release into the environment  
P280 - Wear protective gloves and clothing

**Response**

P301+P310 - If swallowed: Immediately call a Poison Center or doctor/physician.  
Do not induce vomiting. Collect Spillage.  
P303+P361+P353 - If on skin (or hair), Take off immediately all contaminated clothing. Rinse skin with water/shower  
P303+P340 - If inhaled, remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P308+P313 - If exposed or concerned, get medical advice/attention  
P314 - Get medical advice/attention if you feel unwell  
P370+P378 - In case of fire: Use carbon dioxide (CO<sub>2</sub>), foam, dry extinguishing powder to extinguish

**Storage**

P403+P235 - Store in well-ventilated place. Keep cool

**Disposal**

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

**OTHER HAZARDS**

**OSHA HCS 2012**

Under United States Regulations (29 CFR 1910.1200), this product is considered hazardous.

ABBREVIATION KEY

**SECTION 3 COMPOSITION**

**Chemical Composition: Mixture**

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
Petroleum Asphalt <sup>1</sup>	8052-42-4	50 - 70
Polypropylene <sup>1</sup>	9003-07-0	18 - 30
Talc Stabilizer <sup>1</sup>	14807-96-6	0 - 10
Calcium Carbonate <sup>1</sup>	1317-65-3	5 - 23
Fiberglass Mat <sup>1</sup>	Not Established	5 - 25
Fiberglass/Polyester Laminate <sup>1</sup>	Not Established	5 - 25
Sand Dusting <sup>2</sup>	14808-60-7	3 - 25
Dry Talc Dusting <sup>2</sup>	14807-96-6	3 - 15

**Note:** The above components and their percentages are provided for health and safety purposes, ONLY. This document should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

<sup>1</sup> Component is not likely to occur above the limits of exposure considering its incorporated into the mixture and/or provided use.

<sup>2</sup> Concentrations above the limit of exposure are not likely to be found in the ambient air due to adhesion to the membrane's surface.

**SECTION 4 FIRST AID MEASURES**

<b>Eyes</b>	If foreign matter enters eyes, immediately flush with large amounts of potable water for at least 15 minutes or until irritation subsides. Get medical attention if irritation persists.
<b>Skin</b>	Remove contaminated clothing and wash with soap and water.
<b>Inhalation</b>	Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, give oxygen. Get medical attention.
<b>First-Aid, Ingestion</b>	Consult a physician if unusual reaction is noted. Product is not intended nor is it likely to be ingested or eaten.
<b>Symptoms, Acute &amp; Delayed</b>	<b>Refer to Section 11 - Toxicological Information</b>
<b>Immediate Medical Attention</b>	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials

**SECTION 5 FIRE FIGHTING MEASURES**

<b>Flash Point</b>	> 520-650°F (ASTM D92) <b>LEL:</b> 1% <b>UEL:</b> 6%
<b>Hazardous Products of Combustions</b>	Carbon dioxide, carbon monoxide and partially burned carbon
<b>Extinguishing Media</b>	Foam CO <sub>2</sub> or dry chemical extinguishers.
<b>Firefighting instruction</b>	Burning of this product will produce thick black smoke.
<b>Explosion Hazard</b>	None
<b>Protection Gear</b>	Firefighters should wear full face, self contained breathing apparatus and impervious protective clothing to avoid smoke inhalation and lack of oxygen.

ABBREVIATION KEY

ASTM = American Society for Testing and Materials (International)  
UEL = Upper Explosion Limit

LEL = Lower Explosion Limit

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	No special precautions should be necessary if material is used under ordinary conditions and as recommended.
<b>Emergency Procedures</b>	No emergency procedures should be necessary if material is used under ordinary conditions as recommended.
<b>Environmental Precautions</b>	Avoid run off to waterways and sewers.
<b>Method and Materials for Containment &amp; Clean Up</b>	Pick up large pieces. Vacuum dust. If sweeping is necessary, use a dust suppressant such as water. These procedures will help to minimize potential exposures. Scoop up material and put into a suitable container for disposal as a nonhazardous waste.

**SECTION 7 HANDLING AND STORAGE**

<b>Handling</b>	Use this product with adequate ventilation. Avoid breathing dusts or fumes generated from cutting or heating this material. Always wash work clothes separately from other clothing. Wash thoroughly after handling. <b>Use personal protective equipment as described in Section 8.</b>
<b>Storage</b>	Store indoors in a cool, dry, well-ventilated area. Do not handle or store near an open flame, heat or other sources of ignition. This product will react with strong oxidizing agents, reducing agents, strong acids and alkali

**SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Occupational Exposure Limits**

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH REL
Asphalt	8052-42-4	Not Established	0.5 mg/m <sup>3</sup> TWA (respirable)	5 mg/m <sup>3</sup> Ceiling (fume, 15 min)
Talc	14807-96-6	2 mg/m <sup>3</sup> TWA	2 mg/m <sup>3</sup> TWA (respirable)	2 mg/m <sup>3</sup> TWA
Calcium Carbonate	1317-65-3	5 mg/m <sup>3</sup> (respirable) 15 mg/m <sup>3</sup> (total dust)	3 mg/m <sup>3</sup> (respirable) 10 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> (respirable) 10 mg/m <sup>3</sup> (total dust)
Fiberglass Mat	65997-17-3	1 f/cc*	1-f/cc* TWA for fibers <=3µm DIA; and <5µm L	5 mg/m <sup>3</sup> for fibers <=3.5µm DIA; and >=10µm L
Silica, crystalline	14808-60-7	0.1 mg/m <sup>3</sup> TWA (respirable)	0.025 mg/m <sup>3</sup> TWA (respirable)	0.05 mg/m <sup>3</sup> TWA (respirable)

\*Fibers per cubic centimeter

<b>Engineering Measures/ Controls</b>	Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.
<b>General Industrial Hygiene</b>	Use good industrial hygiene practices in handling this material.
<b>Environmental Exposure Controls</b>	Follow best practice for site management and disposal of waste.

ABBREVIATION KEY

NIOSH = National Institute for Occupational Safety  
 OSHA = Occupational Safety & Health Administration  
 ACGIH = American Conference of Governmental Industrial Hygiene

PEL = Permissible Exposure Level  
 TLV = Threshold Limit Value  
 TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

**SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**PERSONAL PROTECTIVE EQUIPMENT**

**Pictographs**



**Eyes/Face**

**Safety glasses with side shields**

Follow the national guidelines concerning the use of protective eye wear.

**Hand**

**Protective Gloves**

Leather or cotton gloves may be worn to prevent skin contact and irritation.

**Skin/Body**

Normal work clothing (long sleeved shirts, long pants and smooth bottom work shoes) is recommended.

**Inhalation**

Use NIOSH or MSHA approved respiratory protective equipment when airborne exposure limits are exceeded.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Solid
<b>Appearance</b>	Fiberglass and polyester-reinforced, APP polymer modified asphaltic material
<b>Odor</b>	Slight asphalt odor
<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available
<b>Relative Evaporation Rate</b>	No data available
<b>Boiling Point</b>	> 900 °F; > 482°C
<b>Freezing Point</b>	No data available
<b>Flash Point</b>	520-650 °F
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Specific Gravity (H<sub>2</sub>O =1)</b>	0.9 - 1.1
<b>Vapor pressure</b>	< 0.1
<b>Vapor Density (AIR=1)</b>	> 20
<b>Solubility in Water</b>	NIL

**SECTION 10 STABILITY AND REACTIVITY**

<b>Stability</b>	Stable at room temperature in closed containers under advised storage and handling conditions.
<b>Reactivity</b>	Upon combustion CO and CO <sub>2</sub> are formed
<b>Conditions to Avoid</b>	Strong oxidizers, no spark or open flame, direct sunlight and high temperatures
<b>Hazardous Decomposition</b>	Carbon monoxide, carbon dioxide, hydrogen sulfide and sulfur dioxide
<b>Hazardous Polymerization</b>	Will not occur

**SECTION 11 TOXICOLOGICAL INFORMATION**

**POTENTIAL HEALTH EFFECTS**

**Eyes**

- Acute (Immediate)** Not expected to present a hazard to the eyes. Mechanical irritation may occur in contact with particles.
- Chronic (Delayed)** No data available

**Skin**

- Acute (Immediate)** Mechanical abrasion may occur in contact with skin. Thermal burns when handled at elevated temperatures.
- Chronic (Delayed)** No data available

**Inhalation**

- Acute (Immediate)** For Torch-on applications, inhalation of fumes may result in irritation, especially if the product is over heated above recommended temperatures.
- Chronic (Delayed)** This product contains crystalline silica which is listed by IARC as a suspect carcinogen. Silicosis (pulmonary fibrosis or severe lung scarring) may occur if exposed to high levels or repeated encounters with dust. Exposure to airborne particles that exceed the limits listed may cause lung cancer. This product also contains petroleum asphalt. If heated, there is limited evidence that derivatives of asphalt fumes may cause carcinogenic effects in animals. There is inadequate evidence to support that asphalt fumes alone are carcinogenic to humans.

**Ingestion**

- Acute (Immediate)** Product is not intended nor is it likely to be ingested or eaten.
- Chronic (Delayed)** No data available

**Component Analysis**

COMPONENT	CAS NUMBER	ORAL LD50 (mg/kg)	DERMAL LD50 (mg/kg)	INHALATION LC50 (mg/m <sup>3</sup> )
Asphalt	8052-42-4	>5,000 (rat)	>2,000 (rabbit)	> 94.4 (rat)
Crystalline silica	14808-60-7	500 (rat)	N/A	> 1 (rat)
Calcium Carbonate	1317-65-3	6,450 (rat)	N/A	> 250 (rat)

**Component Carcinogenicity**

- Asphalt (8052-42-4)  
IARC: Group 2B - Possible Carcinogen
- Calcium Carbonate (1317-65-3)  
IARC: Group 2B - Possible Carcinogen
- Crystalline silica (14808-60-7)  
IARC: Group 1 - Known Human Carcinogen (IARC Monograph 68 [1997])  
ACGIH: A2 - Suspected Human Carcinogen  
NTP: Known Human Carcinogen

**Mutagenicity**

Based on available data, the classification criteria are not met.

**STOT Single Exposure**

Based on available data, the classification criteria are not met.

**STOT Repeated Exposure**

**OSHA HCS 2012** ▪ STOT RE Hazard Category 1

ABBREVIATION KEY

IARC = International Agency for Research on Cancer  
NTP = National Toxicology Program  
ACGIH = American Conference of Governmental Industrial Hygiene

LD<sub>50</sub> = Lethal dose, 50 percent  
LC<sub>50</sub> = Lethal concentration, 50 Percent  
STOT = Specific Target Organ Toxicity

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Carcinogenic Effects**

When used under normal conditions, this product is not considered a carcinogen. Based upon the newly published IARC classifications for bitumen/asphalt fumes, it has been determined that there is inadequate evidence to support that asphalt fumes alone are carcinogenic to humans.

This product contains crystalline silica which is listed by IARC as a suspect carcinogen. Silicosis (pulmonary fibrosis or severe lung scarring) may occur if exposed to high levels or repeated encounters with dust. Exposure to airborne particles that exceed the limits listed may cause lung cancer.

Continuous Filament Glass Fiber: No chronic health effects are known to be associated with exposure to continuous filament fiberglass. Results from epidemiologic studies have not shown any increases in respiratory disease or cancer. The IARC has classified continuous filament fiber glass as a Group 3 substance, not classifiable as to its carcinogenicity to humans because of the large diameter of continuous filament fibers, these products are not considered respirable.

**SECTION 12 ECOLOGICAL INFORMATION**

**General**

Employ best management practices to prevent this material from entering storm sewer systems, waterways or otherwise impacting plant and animal species.

**Component Analysis**

No data available

**Environmental Transport**

No data available

**Environment Degradation**

No data available

**Soil Absorption/Mobility**

No data available

**Other Information**

This product has not been tested. Based on information related to all raw materials in the finished product it is not expected to harm ecosystems through its applied use.

**SECTION 13 DISPOSAL CONSIDERATIONS**

**Product Waste**

The transportation, storage, treatment and dispose of this waste must be conducted in accordance with all applicable federal, state and local regulations.

**Packaging Waste**

The transportation, storage, treatment and dispose of this waste must be conducted in accordance with all applicable federal, state and local regulations.

**SECTION 14 TRANSPORT INFORMATION**

**Transportation Regulations**

This product is not regulated as a hazardous material in transportation.

**National Motor Freight Classification (NMFC)**

Class 55

**SECTION 15 REGULATORY INFORMATION**

<b>TSCA Inventory</b>	Components are listed
<b>DSL Inventory</b>	Components are listed
<b>WHMIS Classification</b>	Controlled Product Classification: D2A, based on the IARC classification of crystalline silica and Calcium Carbonate
<b>Sara 313</b>	None present
<b>Sara 311/312 Categories</b>	Acute Health Hazard; Chronic Health Hazard
<b>CERCLA</b>	None present
<b>CA Proposition 65</b>	Petroleum Asphalt (CAS #8052-42-4); Silica, crystalline (CAS #14808-60-7) <b>WARNING:</b> This product contains a chemicals known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
<b>IRCA</b>	Petroleum Asphalt (CAS #8052-42-4); Silica, crystalline (CAS #14808-60-7) Calcium Carbonate (CAS #1317-65-3)
<b>NIOSH</b>	Petroleum Asphalt (CAS #8052-42-4); Silica, crystalline (CAS #14808-60-7)

**Right to Know States**

COMPONENT	CAS NUMBER	CA	MA	MN	NJ	PA	RI
Asphalt	8052-42-4	Yes	Yes	Yes	Yes	Yes	Yes
Talc	14807-96-6	Yes	Yes	Yes	Yes	Yes	Yes
Calcium Carbonate	1317-65-3	No	Yes	Yes	Yes	Yes	Yes
Fiberglass Mat	65997-17-3	Yes	Yes	Yes	Yes	Yes	Yes
Silica, crystalline	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes

**SECTION 16 OTHER INFORMATION**

<b>Preparation Date</b>	January 2016
<b>Revision Date</b>	July 2018
<b>Summary of Changes</b>	<b>Section 2:</b> Updated the GHS hazard classification; <b>Section 8:</b> Corrections to Occupational Exposure limits; <b>Section 11:</b> Added IARC, NTP and ACGIH Carcinogenicity Classifications; <b>Section 15:</b> Updated the Proposition 65 Warning; <b>Section 16:</b> Removed HMIS and NFPA ratings

**Disclaimer**

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The information and recommendations are offered for the users consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. It is also the users responsibility to make certain that it is relying upon the most recent, updated, information and recommendations available from DERBIGUM Americas.

ABBREVIATION KEY

TSCA = Toxic Substances Control Act	DSL = Domestic Substances List (Canada)
WHMIS = Workplace Hazardous Materials Information System (Canada)	CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act
IARC = International Agency for Research on Cancer	NIOSH = National Institute for Occupational Safety
GHS = Global Harmonized System	HMIS = Hazardous Material Identification System
NFPA = National Fire Protection Agency	