


SECTION 1 IDENTIFICATION

Product Name	Derbibase SA
Recommended Use	SBS Modified Bitumen Roofing Material
Restrictions	None
Manufacturer	DERBIGUM Americas, Inc
Address	4821 Chelsea Avenue Kansas City, MO 64130
Phone Number	(800) 727-9872
Emergency Number	(800) 424-9300 (CHEMTREC)

SECTION 2 HAZARDS

GHS Classification	Carcinogenicity – Category 1A Skin Irritation – Category 2 Eye Irritation – Category 2B Specific Target Organ Toxicity, Repeated Exposure – Category 1 Specific Target Organ Toxicity, Single Exposure – Category 2
Hazard Pictographs	
Signal Word	DANGER
Hazard Statements	H302 - Harmful if swallowed H315 - Causes skin irritation H320 - Causes eye irritation H335 - May cause respiratory irritation H350 - May cause cancer H372 - Causes damage to organs (central nervous system, eye, skin, lung, liver) through prolonged or repeated exposure (dermal, inhalation)
Precautionary Statements	P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood 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 P280 - Wear protective gloves/protective clothing/eye protection/face protection P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P314 + P337 - Get medical advice/attention if you feel unwell; If eye irritation persists; P362 - Take off contaminated clothing and wash before reuse P405 - Store locked up P501 - 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

SECTION 3 COMPOSITION

Chemical Composition

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
Petroleum Asphalt	8052-42-4	30 - 70
Oxidized Bitumen ¹	64742-93-4	0 - 20
Styrene Butadiene Copolymer ¹	9003-55-8	0 - 15
Highly Hydrotreated Naphthenic Oil ¹	64742-52-5	0 - 30
Calcium Carbonate ¹	1317-65-3	0 - 60
Fiberglass mat ¹	65997-17-3	1 - 7
Crystalline Silica ²	14808-60-7	7 - 13
Talc	14807-96-6	7 - 13
Silicone	N/A	6 - 20

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.

1. The exposure to the substance above the limits of exposure is not likely to occur considering its form (incorporated in the mixture) and/or the provided use. The limit of exposure is given for reference only.
2. A proportion of crystalline silica can be present in the sand sprinkled on the top of some membranes. The crystalline silica contained in the sand is not likely to be found in the ambient air in concentration above the limit of exposure since the sand adheres to the surface of the membrane

SECTION 4 FIRST AID MEASURES

Eyes	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.
Skin	Remove contaminated clothing and wash with soap and water.
Inhalation	Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, give oxygen. Get medical attention.
First-Aid, Ingestion	Consult a physician if unusual reaction is noted. Product is not intended nor is it likely to be ingested or eaten.
Symptoms, Acute & Delayed	Refer to Section 11 - Toxicological Information
Immediate Medical Attention	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

Flash Point	Not Available
Hazardous Products of Combustions	Carbon dioxide, carbon monoxide and partially burned carbon
Extinguishing Media	Foam CO ₂ or dry chemical extinguishers.
Firefighting instruction	Burning of this product will produce thick black smoke.
Explosion Hazard	None
Protection Gear	Firefighters should wear full face, self contained breathing apparatus and impervious protective clothing to avoid smoke inhalation and lack of oxygen.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	No special precautions should be necessary if material is used under ordinary conditions and as recommended.
Personal Precautions	No emergency procedures should be necessary if material is used under ordinary conditions as recommended.
Environmental Precautions	Avoid run off to waterways and sewers.
Method and Materials for Containment & Clean Up	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

Handling	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. Use personal protective equipment as described in Section 8.
Storage	Keep containers cool, dry and away from sources of ignition. DO NOT STORE NEAR HEAT, SPARKS, FLAME, OTHER SOURCES OF IGNITION OR STRONG OXIDIZERS.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye	Safety glasses with side shields should be worn at a minimum.
Skin	Normal work clothing (long sleeved shirts, long pants and smooth bottom work shoes) is recommended.
Respiratory	Use NIOSH or MSHA approved respiratory protective equipment when airborne exposure limits are exceeded.
Ventilation	Ventilation may be used to reduce airborne concentrations. If ventilation can not reduce airborne concentrations below acceptable limits, appropriate respiratory protection should be used.
Work/Hygienic Practices	Wash hands after application
Occupational Exposure Limits	

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH REL
Petroleum Asphalt	8052-42-4	Not Established	0.5 mg/m ³ TWA (respirable) 8 hour	0.5 mg/m ³ Ceiling (15 min)
Oxidized Bitumen	64742-93-4	Not Established	0.5 mg/m ³ TWA (respirable)	0.5 mg/m ³ Ceiling (15 min)
Highly hyrotreated Naphthenic oil	64742-52-5	2,000 mg/m ³ TWA	Not Established	350 mg/m ³ TWA 1800 mg/m ³ (15 min)
Styrene Butadiene copolymer	9003-55-8	Not Established	10 mg/m ³ TWA	Not Established
Calcium Carbonate	471-34-1	15 mg/m ³ 5 mg/m ³ (respirable)	10 mg/m ³ TWA (respirable)	3 mg/m ³ TWA 5 mg/m ³ (respirable)
Fiberglass Mat	65997-17-3	1 f/cc*	1-f/cc* TWA for fibers <=3µm DIA; and <5µm L	5 mg/m ³ for fibers <=3.5µm DIA; and >=10µm L

*fiber per cubic centimeter

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SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH REL
Talc	14807-96-6	2 mg/m ³ TWA	2 mg/m ³ TWA (respirable)	2 mg/m ³ TWA
Silica, crystalline	14808-60-7	10 mg/m ³ (respirable) 30 mg/m ³ (total)	Not Established	3 mg/m ³ TWA 5 mg/m ³ (total)

*Million particles per cubic foot

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Fiberglass-reinforced, SBS polymer modified asphaltic material
Odor	Slight asphalt odor
Odor Threshold	No data available
pH	No data available
Relative Evaporation Rate	No data available
Boiling Point	No data available
Freezing Point	No data available
Flash Point	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Specific Gravity (H₂O =1)	No data available
Vapor pressure	No data available
Vapor Density (AIR=1)	No data available
Solubility in Water	NIL

SECTION 10 STABILITY AND REACTIVITY

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

SECTION 11 TOXICOLOGICAL INFORMATION

Primary Route(s) of Entry	Eye Contact, Ingestion, Inhalation, Skin Contact
Skin Corrosion/Irritation	Mechanical abrasion may occur in contact with skin. Thermal burns when handled at elevated temperatures.
Eye Damage/Irritation	Not expected to present a hazard to the eyes. Mechanical irritation may occur in contact with particles. Thermal burns when handled at elevated temperatures.
Mutagenicity	Based on available data, the classification criteria are not met.

SECTION 11 TOXICOLOGICAL INFORMATION

STOT Single Exposure For Torch-on applications, inhalation of fumes may result in irritation, especially if the product is over heated above recommended temperatures.

STOT Repeated Exposure Causes damage to organs (nose, throat, eye, skin and lung) through prolonged or repeated exposure.

Component Analysis

COMPONENT	CAS NUMBER	ORAL LD50 (mg/kg)	DERMAL LD50 (mg/kg)	VAPOR LC50 (mg/L)
Petroleum Asphalt	8052-42-4	>5,000 (rat)	>2,000 (rabbit)	N/A
Oxidized Bitumen	64742-93-4	5,000 (rat)	>2,000 (rabbit)	N/A
Crystalline silica	14808-60-7	500 (rat)	N/A	N/A
Calcium Carbonate	471-34-1	6,450 (rat)	N/A	N/A
Highly hyrotreated Naphthenic oil	64742-52-5	>5,000 (rat)	>2,000 (rabbit)	5.7 (rat) 4 hrs

Carcinogenicity

Petroleum Asphalt (8052-42-4)
IARC: Group 2B - Possible Carcinogen

Oxidized Bitumen (64742-93-4)
IARC: Group 2A - Probably Carcinogenic to Humans

Crystalline silica (14808-60-7)
ACGIH: A2 - Suspected Human Carcinogen
NTP: Known Human Carcinogen
IARC: Group 1 - Known Human Carcinogen (IARC Monograph 68 [1997])

Calcium Carbonate (471-34-1)
IARC: Group 2B - Possible Carcinogen

Acute Toxicity If dust evolves from this product during use it may cause temporary mechanical irritation or scratchiness of the throat and/or itching of the eyes and skin.

Chronic

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.

No chronic health effects are known to be associated with exposure to continuous filament fiber glass. Results from epidemiologic studies have not shown any increases in respiratory disease or cancer.

SECTION 12 ECOLOGICAL INFORMATION

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

Environmental Transport No Data

Environment Degradation No Data

Soil Absorption/Mobility No Data



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

TSCA Inventory Components are listed

DSL Inventory Components are listed

WHMIS Classification Controlled Product Classification: D2A, based on the IARC classification of crystalline silica and Calcium Carbonate

Sara 313 None present

Sara 311/312 Categories Acute Health Hazard; Chronic Health Hazard

CERCLA None present

CA Proposition 65 Petroleum Asphalt (8052-42-4)
Oxidized Bitumen (64742-93-4)
Crystalline silica (14808-60-7)

Right to Know States

COMPONENT	CAS NUMBER	CA	MA	MN	NJ	PA	RI
Petroleum Asphalt	8052-42-4	Yes	Yes	No	Yes	Yes	Yes
Oxidized Bitumen	64742-93-4	Yes	No	No	Yes	No	No
Highly Hrotreated Naphthenic Oil	64742-52-5	No	Yes	No	Yes	No	No
Styrene Butadiene Copolymer	9003-55-8	No	No	No	Yes	Yes	No
Calcium Carbonate	471-34-1	No	Yes	Yes	No	Yes	Yes
Fiberglass Mat	65997-17-3	Yes	Yes	Yes	Yes	Yes	Yes
Silica, crystalline	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes
Talc	14807-96-6	Yes	Yes	Yes	Yes	Yes	Yes

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SECTION 16 OTHER INFORMATION

This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

COMPONENT	HEALTH	FIRE	REACTIVITY
NFPA Rating	1	1	0
HMIS Rating	1	1	0

Reason for revision: Solvent Change & updated hazard information

The information and recommendations contained herein are to the best of DERBIGUM Americas' knowledge and belief, accurate and reliable as of the date issued. DERBIGUM Americas does not warrant or guarantee their accuracy or reliability, and DERBIGUM Americas shall not be liable for any loss or damage arising out of the use thereof.

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.

The Environmental Information included, as well as the Hazardous Material Identification System (HMIS) and National Fire Protection Association (NFPA) ratings, have been included by DERBIGUM Americas in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with DERBIGUM Americas' interpretation of the available data.