


# SAFETY DATA SHEET

# RESISTO<sup>®</sup>

## SECTION 1 IDENTIFICATION

Product Name	Bitutak MB Smooth
Product Identifier	Mixture of asphalt, Polypropylene, Talc Stabilizer, Calcium Carbonate, Fiberglass Mat, Polyester Laminate, Sand and Talc Dusting agents
Recommended Use	APP 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	Acute Toxicity (Oral, Inhalation): Hazard Category 4 Carcinogenicity: Category 1A Specific Target Organ Toxicity, Repeated Exposure: Hazard Category 1
Hazard Pictographs	
Signal Word	Warning
Hazard Statements	H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H320 - Causes eye irritation H333 - May be harmful if inhaled H335 - May cause respiratory irritation H351 - Suspected of causing cancer H372 - Causes damage to organs (nose, throat, eye, skin and lung) 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 P232 - Protect from Moisture P260 - Do not breathe fume, gas, vapors P261 - Avoid release to the environment 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

## SECTION 2 HAZARDS

Response	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
Hazards not otherwise Classified	Prolonged or repeated contact may dry skin and cause irritation. Possibility of organ or organ system damage from prolonged exposure.

## SECTION 3 COMPOSITION

## Chemical Composition

COMPONENT	CAS NUMBER	PERCENT BY WEIGHT
Petroleum Asphalt	8052-42-4	50 - 70
Polypropylene	9003-07-0	18 - 30
Talc Stabilizer	14807-96-6	0 - 10
Calcium Carbonate	1317-65-3	5 - 23
Fiberglass Mat	65997-17-3	5 - 25
Polyester Laminate	Not Established	5 - 25
Sand Dusting	14808-60-7	3 - 25

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.

## 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	> 520-650°F (ASTM D92) LEL: 1% UEL: 6%
Hazardous Products of Combustions	Carbon dioxide, carbon monoxide and partially burned carbon
Extinguishing Media	Foam CO <sub>2</sub> 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. <b>DO NOT STORE NEAR HEAT, SPARKS, FLAME, OTHER SOURCES OF IGNITION OR STRONG OXIDIZERS.</b>

## 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

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

## Occupational Exposure Limits

COMPONENT	CAS NUMBER	OSHA PEL	ACGIH TLV	NIOSH REL
Petroleum Asphalt	8052-42-4	Not Established	0.5 mg/m <sup>3</sup> TWA (respirable)	0.5 mg/m <sup>3</sup> Ceiling (15 min)
Polypropylene	9003-07-0	5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> TWA
Talc	14807-96-6	20 mppcf*	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)	10 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA
Fiberglass Mat	65997-17-3	15 mg/m <sup>3</sup>	Not Established	3 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup> (total)
Silica, crystalline	14808-60-7	10 mg/m <sup>3</sup> (respirable) 30 mg/m <sup>3</sup> (total)	Not Established	3 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup> (total)

\*Million particles per cubic foot

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Fiberglass and polyester-reinforced, APP 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	> 900 °F; > 482°C
Freezing Point	No data available
Flash Point	520-650 °F
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Specific Gravity (H <sub>2</sub> O =1)	0.9 - 1.1
Vapor pressure	< 0.1
Vapor Density (AIR=1)	> 20
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 <sub>2</sub> 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
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.
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.
Respiratory/Skin Sensitizer	Not considered to be a skin or respiratory sensitizer.
Mutagenicity	Based on available data, the classification criteria are not met.
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
Polypropylene	9003-07-0	110,000 (rat)	N/A	N/A
Crystalline silica	14808-60-7	500 (rat)	N/A	N/A
Calcium Carbonate	1317-65-3	6,450 (rat)	N/A	N/A

Component Carcinogenicity	Crystalline silica (14808-60-7) ACGIH: A2 - Suspected Human Carcinogen NTP: Known Human Carcinogen (Select Carcinogen) IARC: Group 1 - Known Human Carcinogen (IARC Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources)
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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.
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## 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
Environmental Transport	No Data
Environment Degradation	No Data
Soil Absorption/Mobility	No Data
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

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	This product can expose you to chemicals including asphalt (CAS #8052-42-4), Talc (CAS #14807-96-6), Fiberglass mat (CAS #65997-17-3) and Silica, crystalline (CAS #14808-60-7) which is 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> .
IRCA	Petroleum Asphalt (CAS #8052-42-4); Silica, crystalline (CAS #14808-60-7)
NIOSH	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
Petroleum Asphalt	8052-42-4	No	Yes	No	Yes	Yes	Yes
Polypropylene	9003-07-0	No	No	No	Yes	Yes	No
Talc	14807-96-6	Yes	Yes	Yes	Yes	Yes	No
Calcium Carbonate	1317-65-3	No	Yes	Yes	Yes	Yes	No
Fiberglass Mat	65997-17-3	Yes	No	Yes	Yes	Yes	Yes
Polyester Mat	25038-59-9	No	No	No	Yes	Yes	No
Silica, crystalline	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes

## 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

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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.