



DERBIGUM®
MAKING BUILDINGS SMART

Material Safety Data Sheet

Product: DERBIGUM EFC Surface

MSDS Date: 6-30-10
Product Name: DERBIGUM EFC Surface
Manufacturer: DERBIGUM Americas, Inc.

I. Product and Company Description

DERBIGUM Americas, Inc.
4821 Chelsea Ave.
Kansas City, MO 64130

Emergency Phone Number:
(800) 424-9300 CHEMTREC

For Product Information:
(800) 541-5455

Product Description:
Coating

II. Chemical Composition

Component	CAS#	%Composition
Acetic acid ethenyl ester, polymer with chloroethene and ethene	25085-46-5	34
Aluminum hydroxide	21645-51-2	33.9
Water	7732-18-5	14.9
Barium sulfate	7727-43-7	10.7
Titanium dioxide	13463-67-7	5.7
Dimethyl silicone polymer with silica	67762-90-7	0.3
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	126-86-3	0.2
Magnesium nitrate	10377-60-3	0.1
Cupric nitrate	3251-23-8	0.1
Magnesium chloride	7786-30-3	0.1

III. Hazards Identification

A. Emergency Overview:

Physical Appearance and Odor:
Opaque viscous liquid with slight ammoniacal odor.



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B. Potential Health Effects:

Acute Eye:

Vapor may cause eye irritation.

Acute Skin:

This product may cause skin irritation.

Acute Inhalation:

May cause nose and throat irritation.

Acute ingestion:

This product may be harmful or fatal if swallowed.

Chronic effects:

Not Determined

IV. First Aid Measures

First Aid Measures for Accidental Exposure:

Eye Exposure:

Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

Skin Exposure:

While wet, wash with water. If dry, use proprietary hand cleaner, followed by soap and water.

Inhalation:

Remove to fresh air. Seek medical attention if symptoms develop or persist.

Ingestion:

If the material is swallowed, get immediate medical attention or advice – DO NOT INDUCE VOMITING.

V. Fire Fighting Measures

Fire Hazard Data:

Flash Point: >200°F

Ignition Temperature: Not Determined

Flammability Limits (vol/vol%): Lower: NA Upper: NA

Extinguishing Media:

Use appropriate extinguishing media for surrounding fire.

Special Fire Fighting Procedures:

Wear self-contained respiratory protective device.



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Unusual Fire and Explosion Hazards:

None

Hazardous Decomposition Materials (Under Fire Conditions):

None

VI. Accidental Release Measures

Cleanup and Disposal of Spill:

Cover with a layer of sand or suitable absorbent material, or wash away with water. Dispose of materials according to the applicable Federal, State, or local regulations.

VII. Handling and Storage

Handling:

Avoid prolonged contact with skin. Do not consume food or beverage while handling.

Storage:

Do not allow to freeze; otherwise, material will be unusable and require disposal.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Acetic acid ethenyl ester, polymer with chloroethene and ethene	ND	ND	ND
Aluminum hydroxide	ND	ND	ND
Water	NA	NA	NA
Barium sulfate	10 mg/m ³ TWA	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)
Titanium dioxide	10 mg/m ³ TWA	10 mg/m ³ TWA (total dust)	ND
Dimethyl silicone polymer with silica	ND	ND	ND
5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	ND	ND	ND
Magnesium nitrate	ND	ND	ND
Cupric nitrate	ND	ND	ND
Magnesium chloride	ND	ND	ND

Engineering Controls:

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS.



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Respiratory Protection:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or EN approved respirator when necessary.

Eye / Face Protection:

Wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

Skin Protection:

Chemical resistant gloves recommended, such as neoprene or nitrile rubber. Body covering clothing should be utilized.

IX. Physical and Chemical Properties

Physical Appearance:	Opaque viscous liquid
Odor:	Ammonia
pH:	9.5
Specific Gravity:	1.48
Water Solubility:	Soluble
Melting Point Range:	NA
Boiling Point:	212°F
Vapor Pressure:	68
Vapor Density:	As Water
%Volatile by volume:	27
Evaporation Rate:	As Water
Viscosity:	ND

X. Stability and Reactivity

Chemical Stability:

Stable under standard use and storage conditions.

Conditions to Avoid:

Freezing will coagulate material

Materials / Chemicals to be Avoided:

None

Hazardous Decomposition Products:

None

Hazardous Polymerization:

Should not occur.

XI. Toxicological Information

Acute Toxicity:

Aluminum hydroxide (21645-51-2)
Oral LD50 Rat >5000 mg/kg



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Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

Titanium dioxide (13463-67-7)

Oral LD50 Rat >10000 mg/kg

Cupric nitrate (3251-23-8)

Oral LD50 Rat 794 mg/kg

Magnesium nitrate (10377-60-3)

Oral LD50 Rat 5440 mg/kg

Magnesium chloride (7786-30-3)

Oral LD50 Rat 2800 mg/kg

Chronic Toxicity:

Component Carcinogenicity

Titanium dioxide (13463-67-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

NIOSH: potential occupational carcinogen

IARC: Monograph 93 [in preparation]; Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans))

XII. Ecological Information

Ecotoxicological Information:

Magnesium chloride (7786-30-3)

Test & Species

96 Hr LC50 <i>Gambusia affinis</i>	4210 mg/L [static]
96 Hr LC50 <i>Pimephales promelas</i>	1970-3880 mg/L [static]
72 Hr EC50 <i>Desmodemus subspicatus</i>	2200 mg/L
24 Hr EC50 <i>Daphnia magna</i>	1400 mg/L
48 Hr EC50 <i>Daphnia magna</i>	140 mg/L [Static]

Conditions

Chemical Fate Information:

Not Determined

XIII. Disposal Considerations

Waste Disposal Method:

Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

Container Handling and Disposal:

Dispose of container and unused contents in accordance with federal, state, and local regulations.

XIV. Transportation Information



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US Department of Transportation Shipping Name:

US Department of Transportation	Proper Shipping Name	Not Regulated
	Hazard Class	Not Regulated
	ID Number	Not Regulated
	Packaging Group	Not Regulated

XV. Regulatory Information

Federal Regulations:

SARA Title III Hazard Classes:

Fire Hazard: NO
 Reactive Hazard: NO
 Release of Pressure: NO
 Acute Health Hazard: NO
 Chronic Health Hazard: NO

Toxic Substances Control Act (TSCA): All components are included in the inventory or are not required to be listed.

Other Regulations:

State:

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Barium sulfate	7727-43-7	No	Yes	Yes	Yes	Yes	No
Titanium dioxide	13463-67-7	No	Yes	Yes	Yes	Yes	Yes
Cupric nitrate	3251-23-8	Yes	Yes	No	Yes	Yes	Yes
Magnesium nitrate	10377-60-3	No	Yes	No	Yes	Yes	Yes

XVI. Other Information

National Fire Protection Association Hazard Ratings – NFPA(R):

Health Hazard: 1
 Flammability: 0
 Reactivity: 0

Key Legend Information:

N/A – Not Applicable
 ND – Not Determined
 ACGIH – American Conference of Governmental Industrial Hygienists
 OSHA – Occupational Safety and Health Administration

TLV – Threshold Limit Value
 PEL – Permissible Exposure Limit
 TWA – Time Weighted Average
 STEL – Short Term Exposure Limit
 NTP – National Toxicology Program
 IARC – International Agency for Research on Cancer



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The information contained herein is based on the data available to us and is believed to be correct. However DERBIGUM Americas, Inc. makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.