

MATERIAL SAFETY DATA SHEET

BOOM Mat™ Spray

SECTION I – IDENTIFICATION

Distributor: Design Engineering, Inc.
Address: 604 Moore Rd
Phone: (440) 930-7940 **Fax:** (440) 930-7967
Date Prepared: February 2006 **Formulation #:** BM-235
Trade Name: BOOM Mat™ Spray

SECTION II – INGREDIENTS AND HAZARD CLASSIFICATION

Dangerous components:		
1317-65-3	Calcium Carbonate	31.28%
108-88-3	Toluene	18.23%
8052-42-4	Asphalt	15.3%
64742-89-8	VM&P Naptha	11.7%
14807-96-6	Talc (Mg3H2(SiO3)4)	7.2%
1332-58-7	Aluminum Silicate	6.3%
74-98-6	propane	6.3%
106-97-8	n-butane	3.7%

Chemical Description: This product is a mixture of the substances listed above with nonhazardous additions.

SECTION III – HAZARDS IDENTIFICATION

Hazard description: Irritant Extremely flammable

Physical dangers: Danger! Extremely flammable liquid and vapor in a pressurized container. Vapors may cause flash fire. Keep away from heat, sparks, and flame. Extremely flammable. Irritating to eyes, respiratory system and skin. Keep out of the reach of children.

Effects of short-term overexposure: Vapors cause irritation to the eyes, nose, throat, skin, and central nervous system. Symptoms may include dizziness, throat irritation, headache, fatigue, swelling of eyes, and nausea.

Effects of chronic overexposure: May cause permanent brain and nervous system damage. Repeated overexposure can also damage kidneys, lungs, liver, heart, and blood. Intentional misuse by deliberately inhaling the contents may be harmful or fatal.

NFPA ratings (scale 0 - 4): Health = 1 Fire = 4 Reactivity = 3
HMIS-ratings (scale 0 - 4): Health = 1 Fire = 4 Physical Hazard = 3

SECTION IV – FIRST AID MEASURES

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Move to fresh air. Rinse opened eye for several minutes under running water.

After swallowing: Contact physician or poison control center.

SECTION V – FIRE FIGHTING MEASURES

Extinguishing agents: CO2, sand, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal safety precautions: Wear protective equipment. Keep unprotected persons away.

Environmental safety precautions: Do not allow product to reach sewage systems or ground water. Inform appropriate authorities in case of seepage into water course or sewage system.

Measures for cleaning/collecting: Do not flush with water or aqueous cleansing agents. Use diluted caustic solution. Soak up spills with inert absorbent material. Dispose of properly.

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SECTION VII – HANDLING AND STORAGE

Fire/explosion protection: Do not spray on a naked flame or any incandescent material. Do not smoke. Protect from electrostatic charges.

Storage requirements: Observe pressurized container storage regulations. Consult with your local authorities. Keep away from sources of heat and direct sunlight. Do not warehouse in subfreezing conditions.

SECTION VIII – SPECIAL PROTECTION INFORMATION

Components with limit values that require monitoring at the workplace:	
1317-65-3 Calcium Carbonate	
PEL	15*; 5** mg/m ³ *Total dust **Respirable fraction
REL	10*; 5** mg/m ³ *Total dust **Respirable fraction
TLV	10 mg/m ³ (e)
8052-42-4 Asphalt	
REL	Short-term value: C 5* mg/m ³ fume; *15-min
TLV	0.5 I mg/m ³ as benzene-soluble aerosol
1332-58-7 Aluminum Silicate	
PEL	15*; 5** mg/m ³ *Total dust **Respirable fraction
REL	10*; 5** mg/m ³ *Total dust **Respirable fraction
TLV	2 R mg/m ³ (e)
74-98-6 propane	
PEL	1800 mg/m ³ , 1000 ppm
REL	1800 mg/m ³ , 1000 ppm
TLV	(4508) mg/m ³ , (2500) ppm
106-97-8 n-butane	
REL	1900 mg/m ³ , 800 ppm
TLV	1900 mg/m ³ , 800 ppm

Protective hygienic measures: Keep away from foodstuffs and animal feed. Wash hands after use.

Breathing equipment: A respirator is generally not necessary when using this product outdoors or in large open areas. In cases of inadequate ventilation, a respiratory protective device should be worn to prevent overexposure. Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands: Protective gloves. The glove material has to be impermeable and resistant to the substance. No glove recommendation can be given.

Eye protection: Tightly sealed goggles

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Form: Aerosol

Color: Black

Odor: Solvent

Boiling point/Boiling range: -44°C (-47°F)

Ignition temperature: 470.0°C (878°F)

Auto igniting: Product is not self-igniting.

Danger of explosion: Stable at normal temperatures. Can may burst when exposed to temperatures exceeding 120 degrees Fahrenheit. In use, may form flammable/explosive vapour-air mixture.

Lower Explosion Limit: 0.9 Vol %

Upper Explosion Limit: 10.2 Vol %

Vapor Pressure: 40 PSI, 2750 hPa

Density: Not determined.

Specific Gravity: Between 0.77 and 0.90 (Water equals 1.00)

VOC content: 217.0 g/l / 1.81 lb/gl

VOC in weight percent (less acetone): 21.7 %

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SECTION X – STABILITY AND REACTIVITY

Conditions to be avoided: Do not allow the can to exceed 120 degrees Fahrenheit. Stable at normal temperatures.

Possibility of Hazardous Reactions: No dangerous reactions known.

SECTION XI – TOXICOLOGICAL INFORMATION

Primary effect on the skin: Irritant to skin and mucous membranes.

Primary effect on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information: Harmful

SECTION XII – ECOLOGICAL INFORMATION

Other information: This product does not contain any chlorofluorocarbons (CFC's), chlorinated solvents, or heavy metals (lead, mercury, cadmium, etc.). No specific ecological data is available for this product.

SECTION XIII – DISPOSAL CONSIDERATION

DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.

Recommendation: Empty cans should be recycled.

SECTION XIV – TRANSPORTATION INFORMATION

Hazard class: 2.1	Identification number: N/A	Label: 2.1	ADR/RID class: 2 5F
Gases UN-Number: 1950	IMDG Class: 2.1	Packaging group: II	EMS Number: F-D,S-U
Marine pollutant: No	ICAO/IATA Class: 2.1	Proper shipping name: Aerosols, Flammable Consumer Commodity ORM-D	

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SECTION XV – REGULATIONS

SARA Section 355 (extremely hazardous substances):		
None of the ingredients in this product are listed.		
SARA Section 313 (Specific toxic chemical listings):		
None of the ingredients is listed.		
TSCA (Toxic Substances Control Act):		
All ingredients are listed.		
PROPOSITION 65 Chemicals known to cause cancer:		
None of the ingredients in this product are listed.		
PROPOSITION 65 Chemicals known to cause developmental toxicity:		
108-88-3 Toluene		
Canadian WHMIS: Class A, B5---Flammable Aerosols		
EPA: A= Known human carcinogen B= Probable human carcinogen		
C= Possible human carcinogen		
D= Not classifiable as to human carcinogenicity: Inadequate human and animal evidence of carcinogenicity (or no data is available).		
A= Known human carcinogen B= Probable human carcinogen		
C= Possible human carcinogen		
D= Not classifiable as to human carcinogenicity: Inadequate human and animal evidence of carcinogenicity (or no data is available).		
IARC: Group 2B: The ingredient is possibly carcinogenic to humans. There is limited evidence of carcinogenicity.		
Group 3: The ingredient is unclassifiable as to its carcinogenicity to humans.		
8052-42-4	Asphalt	2B
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	3
ACGIH TLVs:		
A1-designates a confirmed human carcinogen.		
A2-designates a suspected human carcinogen.		
A3-designates an animal carcinogen.		
A4-designates "not classifiable as a human carcinogen".		
8052-42-4	Asphalt	A4
1332-58-7	Aluminum Silicate	A4
NIOSH:		
8052-42-4	Asphalt	

The information presented in this MSDS is believed to be factual. However, nothing contained in this information is to be taken as a warranty of any kind. The user should review any recommendations, in the specific content use, to determine whether they are appropriate.

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