

# Dryvit Systems, Inc.



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## MATERIAL SAFETY DATA SHEET #015

### Product(s) Covered by this MSDS:

EPS Insulation Board

Date Issued: May, 1999 (Replaces February, 1994)

HMIS Ratings: Health: 1 Fire: 4  
Reactivity: 0

### Component Information and Hazards:

Ingredients	CAS#; List	OSHA-PEL STEL/TWA	ACGIH-TLV STEL/TWA	% by Weight
Polystyrene	9003-53-6	Not Established	Not established	> 98.0%
Pentane	109-66-0 ( <b>HP</b> )	750 ppm / 600 ppm	750 ppm / 600 ppm	< 1.0%
Hexabromocyclododecane	3194-55-6	Not Established	Not Established	< 1.0%

**Note:** *HP* denotes OSHA Health Hazard / denotes OSHA Physical Hazard.

### Physical/Chemical Characteristics:

White colored beads with an odor of Pentane.

Specific Gravity: 1.

Solubility in Water: Negligible.

### Fire Hazard and Explosion Data:

Flash Point: < 57°F (ASTM D-56).

Flammability Limits: 1.4 – 8.3%

Extinguishing Media: Use water fog, water, waterspray, foam, CO<sub>2</sub>, or dry chemical.

Fire Fighting Procedures: Fire fighters should be equipped with self-contained breathing apparatus and turnout gear. Dense black smoke produced during combustion may obscure vision. To prevent reignition of interior, target center of fire with large amounts of water. Serious slipping hazard may exist from beads spilled on hard smooth surfaces

Unusual Hazards: If exposed to fire, high heat will be developed and heavy, black smoke will result. During combustion, CO, CO<sub>2</sub> and hydrogen bromide will be produced. When containers are opened, flammable vapors (pentane) are released which are heavier than air and may travel long distances, resulting in ignition and flashback to the source. Good ventilation and grounding techniques must be employed. During handling, material generates static charges, which are difficult to dissipate due to the insulating properties of the material. *The above information is based on the pentane-blowing agent.*

### Health Effects Data:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases included inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Overexposure Effects: Contact with the eyes and skin may result in irritation. Prolonged or repeated skin contact may result in dermatitis. Inhalation of high concentrations of pentane vapors irritates the respiratory tract, and may cause dizziness, difficulty in breathing, loss of coordination and CNS depression. Exposure to 5000 ppm for 10 minutes did not cause irritation in mice. Very high concentrations (90,000 – 120,000 ppm) resulted in narcosis and CNS effects. Pentane vapors may cause eye irritation. Redness, tearing and irritation may result from beads entering the eyes.

Chronic Overexposure Effects: There are no other known chronic effects associated with this material.

### First Aid Procedures:

Skin: Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

Eyes: Immediately rinse eyes with running water for 15 minutes, retracting eyelids frequently.

**DRYVIT SYSTEMS, INC.** Page 2 of 3 **EPS Insulation Board**

Date Issued: May, 1999 (replaces February, 1994)

*Ingestion:* If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

*Inhalation:* Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention

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**Reactivity Data:**

Stability: Stable.

Incompatibility: Aromatic solvents, strong oxidizing agents.

Conditions to Avoid: Heat, sparks and flames.

Hazardous Decomposition Products: CO, CO<sub>2</sub>, and hydrogen bromide.

Corrosive Properties / Oxidizer Properties: Not corrosive / not an oxidizer.

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**Personal Protection Data:**

Clothing: Gloves, coveralls, apron, boots as necessary to minimize contact.

Eye: Safety glasses with side-shields or chemical goggles.

Respiration: If dusts are generated, wear an approved dust respirator.

Ventilation: Use local exhaust to control to recommended PEL

Explosion Proofing: Non-sparking safety shoes.

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**Spill / Leak / Environmental Measures:**

General: Remove all sources of ignition, as flammable vapors may be present. Spills should be swept or shoveled into suitable containers for reuse or disposal in a licensed facility. This material is not regulated by RCRA or CERCLA ("Superfund"). Wear appropriate respiratory protection and protective clothing, and provide adequate ventilation during clean up. During handling, this material in bead or expanded form generates static charges, which are difficult to dissipate due to the insulating properties of the material. Serious slipping hazard is created by spilled beads on hard, smooth surfaces.

Waste Disposal: Incinerate (assure that emissions comply with applicable regulations) or bury in a licensed facility in compliance with Federal, State, and Local Solid Waste Regulations. Do not discharge into waterways or sewer systems.

Container Disposal: Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

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**Storage and Handling Data:**

General: Store in well-ventilated area at temperatures below 80°F. Do not store near ignition sources. Keep containers closed. After removing lid and polybag seal, allow at least 10 minutes for volatile vapors (which are heavier than air, and may travel long distances) to disperse. Partial containers must be ventilated in a similar manner. Partial containers should be stored with the inner polybag sealed off as close to the remaining beads as possible to reduce vapor accumulation in the liner. Vapors may also accumulate inside container above liner. Maintain air circulation and ventilation at a minimum rate of six air changes per hour to prevent flammable concentrations from forming. Smoking is not allowed in the area.

Other: Use only non-sparking transfer equipment and tools. All material handling equipment must be electrically grounded to minimize possible ignition due to static electricity, Maintain relative humidity at 40% to minimize static accumulation. Wear goggles, leather gloves, non-static clothing and shoes with conductive soles. Wash thoroughly after handling. Spilled material on hard, smooth surfaces causes a serious slipping hazard. Clean up spills immediately. Use of non-skid walkways is recommended.

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**Regulatory Data:**

TSCA Inventory Status: Yes, listed on inventory.

RCRA Hazard Waste No: No.

State Regulatory Information:

(By Component): NJ/PA/MA RTK; CAS#109-66-0; Yes; Pentane.

(By Component): NJ/PA/MA RTK; CAS#3194-55-6; No; Hexabromocyclododecane; CAS# 9003-53-6; No; Polystyrene.

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**Transportation Data:**

DOT Proper Shipping Name: Polystyrene Beads, Expandable.

DOT Technical Name: None.

DOT Primary Hazard Class: 9.

DOT Secondary Hazard Class: None.

DOT Placard Required: None.

DOT Poison Constituent: None.

**DRYVIT SYSTEMS, INC.** Page 2 of 3 **EPS Insulation Board**

Date Issued: May, 1999 (replaces February, 1994)

Commodity Codes: UN/NA Code: 2211; E/R Guide: 32.

Bill of Lading: Polystyrene beads, expandable, 9, UN2211, PGIII, ERG 32 (Plastic Material, O/T Expanded Flakes, NOI Granules, Pellets, Powder or Solid Mass).

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*MSDS –EPS Insulation Board (input 5/99; replaces 2/94) MSDS #015*

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## MATERIAL SAFETY DATA SHEET #7

### Product(s) Covered by this MSDS:

- 1) Primus®
- 2) Genesis®

Date Issued: April, 1999(Replaces April, 1993)

DOT Classification: Non-Hazardous

HMIS Ratings: Health: 1 Fire: 0

Reactivity: 0 Personal Protection: B

### Component Information and Hazards:

Ingredients	CAS#: List	OSHA-PEL mg/m <sup>3</sup>	ACGIH-TLV mg/m <sup>3</sup>	% by Weight
Sand (Encapsulated)	14808-60-7	15	10	62 – 64%
Water	7732-18-5	NE	NE	26 – 28%
Acrylic Latex Polymer/Binder	Not Applicable	NE	NE	9.9 – 10.2%

### Physical/Chemical Characteristics:

Opaque, semi-solid, wet stucco-like material. Slight ammonia odor.

Specific Gravity: 1.55 – 1.7.

### Fire Hazard Data:

Flash Point: Not applicable.

Extinguishing Media: Use extinguishing material suitable for surrounding fire. Closed plastic containers may build up pressure, rupture, or melt due to extreme heat exposure.

Fire Fighters: Wear positive pressure, self-contained breathing apparatus (SCBA) in enclosed area.

### Reactivity Data:

Stability: Stable

Thermal Decomposition Products: CO, CO<sub>2</sub>, CN, NO<sub>x</sub>.

Hazardous Polymerization: Will not occur. Not compatible with strong oxidizing agents or strong acids.

### Health Hazard Data:

Routes of Entry: No known specific skin, inhalation or ingestion hazard.

Carcinogens: None listed.

Health Hazards: Irritating and abrasive if splashed into the eye because of sand content; may be a skin irritant to sensitive individuals. No acute or chronic hazards are known for the material as packaged at point of manufacture.

Symptoms of Overexposure: None established. Non-specific irritation is possible in sensitive individuals. No known medical conditions aggravated by exposure.

Emergency and First Aid Procedures: Treat for symptoms. If irritation of the eyes, nose, or throat occurs, move to fresh air. If material gets in eyes, wash eyes immediately with large amounts of water lifting eye lids occasionally. Get medical attention.

Mixing Caution: See the Material Safety Data Sheet for Portland Cement and observe all precautions listed on bag(s) of Portland Cement before mixing with these products. When dry, powdered, Portland Cement is added to these products, a caustic, corrosive mixture is formed. This new wet (unhardened) mixture can cause chemical burns to skin and eyes on contact. **Note:** In case of skin contact, wash affected skin thoroughly with water, and remove any affected wet clothing to avoid skin burns. In case of eye contact, flush eyes with running water for 15 minutes and get medical attention immediately. Permanent injury can occur if washing is delayed.

**DRYVIT SYSTEMS, INC.** Page 2 of Primus®/Genesis®

Date Issued: April, 1999 (replaces April, 1993)

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**Control and Protective Measures:**

Precautions for Handling: Wear chemical splash goggles and waterproof gloves while making and using the new wet product.

Protective Gloves: Waterproof gloves when Portland Cement is added.

Eye Protection: Safety or chemical splash goggles; ANSI Z87.1 or equivalent.

Other Equipment: Long sleeves, apron as needed.

Ventilation: None required when used exterior. Provide adequate air movement and mechanical ventilation if used in an enclosed area.

Respiratory Protection: Not required for wet mixture used in well-ventilated areas. Approved mechanical filter respirator should be used to remove solid airborne particles during spray, sawing, and sanding operations.

Work Practices: Observe rules for good personal hygiene and work practices. Wash hands before smoking, eating, or using toilet facilities.

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**Precautions for Safe Handling & Use/Leak Procedures:**

Spills: Shovel and recover; allow material to solidify, then dispose of as ordinary trash. Do not flush to sewer or streams; material can clog drains and make streams turbid.

Waste Disposal: Non-regulated material.

Storage: Keep from freezing.

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**EPA Supplier Notification/Environmental:**

- These trade name products contain no chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Re-authorization Act of 1986 (SARA) and 40 CFR Part 372.
- These products contain no ingredients on the list of Extremely Hazardous Substances for SARA Emergency Planning.
- Tier I / Tier II Hazard Category (40 CFR 370): Immediate Health Hazard.

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MSDS – Primus®/Genesis (input 4/99; replaces 4/93) – MSDS #7

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## MATERIAL SAFETY DATA SHEET #19

### Product(s) Covered by this MSDS:

- |                       |                           |
|-----------------------|---------------------------|
| 1) Standard™ Mesh     | 7) Ultramesh®             |
| 2) Intermediate® Mesh | 8) I.S. Reinforcing Mesh™ |
| 3) Corner™ Mesh       | 9) Standard Plus™ Mesh    |
| 4) Panzer® 15 Mesh    | 10) 4" Reinforcing Mesh™  |
| 5) Panzer® 20 Mesh    | 11) Detail® Mesh          |
| 6) Sprint® Mesh       |                           |

**Date Issued:** April, 1999(Replaces December, 1994)

**DOT Classification:** Non-Hazardous

**HMS Ratings:** Health: 1 Fire: 0  
Reactivity: 0 Personal Protection: A

### Component Information and Hazards:

- These fabrics consist of yarns with a pigmented organic finish.
- The finish comprises a minimum 10% of the fabric weight.
- These fiberglass yarns used have fiber diameters ranging from 9-13 microns.
- Occupational exposure limits for respirable fibrous glass dust are listed.

CAS#; List	OSHA-PEL	ACGIH-TLV	NIOSH
65997-17-3	15 mg/M <sup>3</sup>	10 mg/M <sup>3</sup>	3 Fibers / cc

- Respirable fibrous glass is considered to be glass fibers with a diameter of 3.5 microns or less.
- Respirable fibrous glass dust of 3.5 micron diameter or less is not likely to result from normal cutting operations on these fabrics.

### Physical/Chemical Characteristics:

Mesh fabrics or various weights and stiffness; blue color.

Specific Gravity: Not applicable.

### Fire Hazard Data:

Flash Point: Not applicable. Organic coatings used are self-extinguishing.

Extinguishing Media: Use extinguishing material suitable for surrounding fire.

### Reactivity Data:

Stability: Stable.

Thermal Decomposition Products: CO, CO<sub>2</sub>, CN, NO<sub>x</sub>.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known.

### Health Hazard Data:

Routes of Entry: No known specific skin, inhalation or ingestion hazard.

Carcinogens: None listed.

Health Hazards:

Skin: Prolonged exposure to cut, airborne fibers may be a skin irritant to sensitive individuals. No chronic skin exposure hazards are known.

Respiratory: Exposure to cut, airborne fibers may cause acute mechanical irritation of the mouth, nose and throat to sensitive individuals. No chronic respiratory hazards, or increased rates of lung cancer have been demonstrated in animal studies when animals breathed large quantities of glass fibers.

**DRYVIT SYSTEMS, INC.** Page 2 of 2,  
 Standard™ Mesh / Intermediate® Mesh /  
 Corner™ Mesh / Panzer® 15 Mesh /  
 Panzer® 20 Mesh / Sprint® Mesh /  
 Ultramesh® / I.S. Reinforcing Mesh™ /  
 Standard Plus™ Mesh / 4" Reinforcing Mesh™ /  
 Detail® Mesh

Date Issued: April, 1999 (replaces December, 1994)

Symptoms of Overexposure: None established. Non-specific irritation is possible in sensitive individuals. No known medical conditions aggravated by exposure.

Emergency and First Aid Procedures: Treat for symptoms. If irritation of the eyes, nose, or throat occurs, move to fresh air. If material gets in eyes, wash eyes immediately with large amounts of water lifting eye lids occasionally. Cleanse skin with mild soap and cool water. Get medical attention.

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**Control and Protective Measures:**

Protective Gloves: As needed for physical protection, especially when using cutting tools.

Eye Protection: Safety goggles recommended.

Respiratory Protection: Dust mask recommended during cutting operations.

Ventilation: None required when used exterior. Provide adequate air movement and mechanical ventilation if used in an enclosed area.

Work Practices: Observe rules for good personal hygiene and work practices. Wash hands before smoking, eating, or using toilet facilities.

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**Precautions for Safe Handling & Use/Leak Procedures:**

Waste Disposal: Non-regulated material, dispose of as common waste in accordance with any local or federal laws for any inorganic sanitary product.

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**EPA Supplier Notification/Environmental:**

- These trade name products contain no chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Re-authorization Act of 1986 (SARA) and 40 CFR Part 372.
- These products contain no ingredients on the list of Extremely Hazardous Substances for SARA Emergency Planning.
- Tier I / Tier II Hazard Category (40 CFR 370): Immediate Health Hazard.

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*MSDS – Standard™ Mesh / Intermediate® Mesh / Corner™ Mesh / Panzer® 15 Mesh / Panzer® 20 Mesh / Sprint® Mesh / Ultramesh® / I.S. Reinforcing Mesh™ / Standard Plus™ Mesh / 4" Reinforcing Mesh™ / Detail® Mesh (input 4/99; replaces 12/94)*  
 MSDS #19

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## MATERIAL SAFETY DATA SHEET #9

### Product(s) Covered by this MSDS:

- 1) **Color Prime™** (Offered in a wide variety of colors.)  
2) **Weatherprime®** (Offered in a wide variety of colors.)

**Date Issued:** April, 1999 (Replaces September, 1997)

**DOT Classification:** Non-Hazardous

**HMIS Ratings:** Health: 1 Fire: 0

Reactivity: 0 Personal Protection: A

### Component Information and Hazards:

Ingredients	CAS#: List	OSHA-PEL mg/m <sup>3</sup>	ACGIH-TLV mg/m <sup>3</sup>	% by Weight
Water	7732-18-5	NE	NE	40 – 41%
Acrylic Latex Polymer/Binder	Not Applicable	NE	NE	17 – 18%
Titanium Dioxide (Rutile)	13463-67-7	NE	5	0.5 – 9.9%
Propylene Glycol	57566	NE	NE	1.4 – 1.5%
Calcium Carbonate	(1317635)	NE	NE	16 – 23%

### Physical/Chemical Characteristics:

Opaque, thick, flowable liquid. Slight ammonia odor.

Specific Gravity: 1.2 – 1.45

### Fire Hazard Data:

**Flash Point:** Not applicable.

**Extinguishing Media:** Use extinguishing material suitable for surrounding fire. Closed plastic containers may build up pressure, rupture, or melt due to extreme heat exposure.

**Fire Fighters:** Wear positive pressure, self-contained breathing apparatus (SCBA) in enclosed areas.

### Reactivity Data:

**Stability:** Stable

**Thermal Decomposition Products:** CO, CO<sub>2</sub>, CN, NO<sub>x</sub>

**Hazardous Polymerization:** Will not occur. Not compatible with strong oxidizing agents or strong acids.

### Health Hazard Data:

**Routes of Entry:** No known specific skin, inhalation or ingestion hazard.

**Carcinogens:** None listed.

**Health Hazards:** Irritating and abrasive if splashed into the eye because of filler content; may be a skin irritant to sensitive individuals. No acute or chronic hazards are known for the material as packaged at point of manufacture.

**Symptoms of Overexposure:** None established. Non-specific irritation is possible in sensitive individuals. No known medical conditions aggravated by exposure.

**Emergency and First Aid Procedures:** Treat for symptoms. If irritation of the eyes, nose, or throat occurs, move to fresh air. If material gets in eyes, wash eyes immediately with large amounts of water lifting eye lids occasionally. Get medical attention.

**DRYVIT SYSTEMS, INC.** Page 2 of 2 **Color Prime™/Weatherprime®**

Date Issued: April, 1999 (replaces September, 1997)

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**Control and Protective Measures:****Protective Gloves:** As needed for physical protection.**Eye Protection:** Safety or splash goggles recommended.**Other Equipment:** Long sleeves, apron as needed.**Respiratory Protection:** Not required for wet mixture used exterior or in well-ventilated area. Approved mechanical filter respirator should be used to remove solid airborne particles during spray, sawing, and sanding operations on dried film.**Ventilation:** None required when used exterior. Provide adequate air movement and mechanical ventilation if used in an enclosed area.**Work Practices:** Observe rules for good personal hygiene and work practices. Wash hands before smoking, eating, or using toilet facilities.

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**Precautions for Safe Handling & Use/Leak Procedures:****Spills:** Shovel and recover; then dispose of as common waste. Do not flush to sewer or streams; material can clog drains and make streams turbid.**Waste Disposal:** Non-regulated material.**Storage:** Keep from freezing.

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**EPA Supplier Notification/Environmental:**

- These trade name products contain no chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Re-authorization Act of 1986 (SARA) and 40 CFR Part 372.
- These products contain no ingredients on the list of Extremely Hazardous Substances for SARA Emergency Planning.
- Tier I / Tier II Hazard Category (40 CFR 370): Immediate Health Hazard.

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MSDS – Color Prime™/Weatherprime®t (input 4/99; replaces 9/97) – MSDS #9

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## MATERIAL SAFETY DATA SHEET #010

### Product(s) Covered by this MSDS:

Grid Tape

Date Issued: April, 1999(Replaces January, 1995)

DOT Classification: Non-Hazardous

HMIS Ratings: Health: 1 Fire: 0

Reactivity: 0 Personal Protection: A

### Component Information and Hazards:

Ingredients	CAS#, List	LC <sub>50</sub>	LC <sub>50</sub>	ACGIH-TLV (TWA)
		m/kg	mg/m <sup>3</sup>	mg/m <sup>3</sup>
Fibrous Glass Dust	65-997-17-3	--	--	10

### Physical/Chemical Characteristics:

Woven fiberglass fabric. No significant odor.

Specific Gravity: 2.5.

### Fire Hazard Data:

Flash Point: Not applicable. Material can build a static charge.

Extinguishing Media: Water, foam, carbon dioxide, dry chemical.

Hazardous Combustion Products: Thermal decomposition of fabric coating may cause irritating smoke and fumes.

### Reactivity Data:

Stability: Stable.

Thermal Decomposition Products: Sizing or binders may decompose in a fire to CO, CO<sub>2</sub>, CH<sub>x</sub>, H<sub>2</sub>O.

Hazardous Polymerization: Will not occur.

### Health Hazard Data:

Carcinogens: None listed.

Routes of Entry: Nose, skin, eyes, and throat.

Inhalation: Inhaling of glass fibers may cause mechanical irritation to the mouth, nose, and throat.

Skin: Exposure may cause mild irritation and itching.

Eye: Exposure may cause eye irritation or damage.

Ingestion: May cause temporary irritation of the digestive tract. Observe individual. If symptoms develop, consult a physician.

### Emergency and First Aid Procedures:

Inhalation: Remove to fresh air.

Skin: Wash skin with mild soap and running water. Use s washcloth to help remove fibers; avoid scratching. If irritation persists, get medical attention.

Eyes: Flush eyes with warm running water for 15 minutes. Do not rub. If irritation persists, consult a physician.

### Control and Protective Measures:

Protective Gloves: Cotton.

Eye Protection: Safety goggles recommended.

Other Equipment: Long sleeves, apron as needed.

Respiratory Protection: Where dust levels exceed the TLV, use NIOSH-approved respirator against nuisance dust.

Ventilation: Mechanical ventilation recommended for process machinery where dust generation is apparent.

Work Practices: Observe rules for good personal hygiene and work practices. Avoid unnecessary exposure to dusts and fibers. Remove fibers from the skin after exposure. Be careful not to rub or scratch irritated areas. Rubbing or scratching may force the fibers into skin. The fibers should be washed off. Use of barrier creams can, in some

**DRYVIT SYSTEMS, INC.** Page 2 of 2

Grid Tape,

Date Issued: April, 1999 (replaces January, 1995)

instances, be helpful. Use vacuum equipment to remove fibers and dusts from clothing. Compressed air should never be used. Always wash work clothes separately and wipe out the washer/sink in order to prevent loose glass fibers from getting on other clothes. Keep the work area clean of dust and fibers generated during fabrication. Use vacuum equipment to clean up dust and fibers. Avoid sweeping or using compressed air as these techniques resuspend dust and fibers into the air. Have access to safety showers and eye wash fountains. Barrier creams may be necessary.

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**Precautions for Safe Handling & Use/Leak Procedures:**

Spills: Glass fibers should be cleaned up by a vacuum cleaner, not by blowing with an air hose.

Waste Disposal: Dispose of as dry garbage as per local, provincial and federal regulation.

Storage: Store in a cool, dry place.

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**EPA Supplier Notification/Environmental:**

- ◆ This trade name product contains no chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Re-authorization Act of 1986 (SARA) and 40 CFR Part 372.
- ◆ This product contains no ingredients on the list of Extremely Hazardous Substances for SARA Emergency Planning.
- ◆ Tier I / Tier II Hazard Category (40 CFR 370): Immediate Health Hazard.

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*MSDS – Grid Tape (input 4/99; replaces 1/95)*  
*MSDS #010*

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## MATERIAL SAFETY DATA SHEET #076

### Product(s) Covered by this MSDS:

Flashing Tape

Date Issued: May, 1999 (Replaces January, 1999)

DOT Classification: Non-Hazardous

HMIS Ratings: Health: 2 Fire: 1

Reactivity: 0 Personal Protection: B

### Component Information and Hazards:

Ingredients	CAS#; List	OSHA	ACGIH-TLV	OTHER	% by Weight
Asphalt	08052-42-4 / 64742-93-4	None	TLV 5mg/M3 – TWA (Asphalt Fume)	NOISH: 5 mg/m3	70%
Unprocessed Naphthenic Oil	64742-04-7 / 64742-10-5	None	None	Vendor Recommended 0.2 mg/m3 – TWA (mist)	35%

### Physical/Chemical Characteristics:

A black rubberized asphalt adhesive layer on a gray/black plastic sheet with a paper or plastic release sheet.

Petroleum odor.

Odor Threshold: Unknown.

Boiling Point: Not applicable.

Vapor Pressure (mm Hg): Not applicable.

Vapor Density (Air = 1): Not applicable.

Solubility in Water: Negligible.

Bulk Density: (#/cubic feet): ~ 70.

Specific Gravity (H<sub>2</sub>O = 1): 1.0 – 1.1.

% Volatiles: Negligible.

Evaporation Rate (Butyl Acetate = 1): Not applicable.

pH: Not applicable.

### Health Hazards Data:

#### Routes of Exposure:

*Inhalation:* No known health effects due to inhalation. Due to the physical nature of this product, inhalation is unlikely.

*Skin:* Prolonged or repeated contact with the unprocessed Naphthenic oils in this product may produce serious toxic effects including skin cancer. Animal tests indicate that prolonged and repeated skin contact to the oils in this product may produce local skin tumors.

*Eye:* Eye contact with oil residue may result in irritation.

*Ingestion:* No known health effects due to ingestion. Due to the physical nature of this product, ingestion is unlikely.

Wash hands completely before eating.

#### Carcinogenicity:

*Unprocessed Naphthenic Oil:* This product contains 15 – 35% of an unprocessed Naphthenic oil, which has been shown to cause cancer in laboratory animals. It is classified by IARC as a positive human carcinogen.

*Petroleum Asphalt:* In March 1987, the International Agency for Research on Cancer (IARC) classified bitumen (such as the petroleum asphalt in this product) as a Group 3 material, “not classifiable as to its carcinogenicity to humans.” This classification was made based on inadequate evidence for the carcinogenicity of undiluted air-refined bitumen in experimental animals and inadequate evidence that bitumen alone is carcinogenic to humans.

**DRYVIT SYSTEMS, INC.** Page 2 of 4

Flashing Tape

Date Issued: May, 1999 (replaces January, 1999)

However, asphalt does contain a small amount of Polycyclic aromatic hydrocarbons, which have been shown to cause cancer and respiratory damage in animals. NIOSH recently conducted mouse skin painting studies using selected fractions of asphalt fume condensate. Skin application of the condensate fractions resulted in skin tumors in laboratory mice. Laboratory animals exposed to repeated applications of asphalt materials for their entire lifetime have developed skin tumors primarily at the site of application. The asphalt material was not washed off between exposures. Intermittent or occasional skin contact with petroleum asphalt is not expected to have serious health effects as long as good personal hygiene measures, such as those outlined in this Material Safety Data Sheet (MSDS), are followed. No carcinogenic effects were observed during lifetime inhalation studies with laboratory animals; although lung damage in the test animals was observed. Findings included bronchitis, pneumonitis and abscess formation, among others, similar to problems caused by other non-specific irritants.

**Emergency Overview: Warning Statements**

- May cause slight irritation. May be harmful if in contact with or absorbed through the skin.
- Contains asphalt CAS #8052-42-4 or CAS # 64742-93-4, unprocessed Naphthenic oil CAS # 64742-04-7 or CAS # 64742-10-5, Styrene Butadiene Polymer CAS # 9003-55-8 and Polyolefin film.
- Repeated skin contact with rubberized asphalt adhesive in this product may result in slight irritation. Prolonged or repeated skin contact with the unprocessed Naphthenic oils contained in the rubberized asphalt in this product may, with washing, cause an increased risk of skin cancer, liver damage, blood effects and effects on the unborn based on tests with laboratory animals. Skin cleansing studies with aromatic oils show that the toxic effects are not likely to occur in humans if good personal hygiene practices are used.
- Eye contact with oil residue on hands may result in irritation.
- Removal of the release paper may generate a static electrical discharge (spark).
- Read and understand all health and safety information on the product label and Material Safety Data Sheet (MSDS) before use.

**Fire Hazard Data:**Flash Point:>210°C (>410°F).Flammable Limits:

- LEL: Not applicable
- UEL: Not applicable

Methods Used: Open cup.N.F.P.A. Rating:

- H - 1
- F - 1
- R - 0

Extinguishing Media: Water fog, alcohol foam, dry chemical or carbon dioxide.Special Fire Fighting Procedures: Fire fighters should be equipped with self-contained breathing apparatus (SCBA) to prevent inhalation of hazardous decomposition product.Unusual Fire and Explosion Hazards: Removal of the release paper may generate a static electrical discharge (spark). Do not remove release paper where spark may ignite flammable vapors.**Reactivity Data:**Stability: Stable.Conditions or Materials to Avoid Which May React or Cause Instability: Strong oxidizers.Hazardous Decomposition or Byproducts: Carbon monoxide, sulfur oxides, asphyxiants.Hazardous Polymerization: Not applicable.Conditions to Avoid: Not applicable.**First Aid Measures:**Skin: In case of skin contact, promptly cleanse the area with waterless hand cleaner, thoroughly clean fingernails and follow by washing with soap and water.Eye: If eye irritation develops due to contact with oil residue on hands, flush eyes with plenty of water. Consult a physician if eye or skin irritation develops or if swallowed.Inhalation: If symptoms develop due to inhalation, get fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.Ingestion: If swallowed, contact a physician immediately. The decision to induce vomiting should only be made by a physician. Never give anything by mouth to an unconscious person.

**DRYVIT SYSTEMS, INC.** Page 3 of 4

Flashing Tape

Date Issued: May, 1999 (replaces January, 1999)

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**Handling and Storage Data:****Precautionary Measures:**

- Avoid prolonged or repeated contact with skin. To avoid skin contact use oil impervious gloves.
  - Promptly cleanse with waterless hand cleaner, clean fingernails and wash hands with soap and water after handling.
  - Avoid rubbing eyes while handling.
  - Do not remove release paper where spark may ignite flammable vapors.
  - *For professional use only. Keep out of children's reach.*
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**Accidental Release Measures:**

Waste of this product is not defined as hazardous according to U.S. EPA (40 CFR 261.3).

**Canadian Releases:** Observe all precautions noted above. Remove material for disposal.

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**Exposure Controls / Personal Protection:****Ventilation:***Local Exhaust:* Not required for normal use.*Mechanical:* Not required for normal use.*Special:* Not applicable.*Other:* Not applicable.**Respiratory Protection:** Use of respiratory protection is not required during normal use.**Skin Protection:** In order to avoid prolonged or repeated contact with oil residue, use of oil impervious gloves is recommended.**Eye Protection:** Not required for normal use.**Other protection Clothing or Equipment:** Not applicable.**Work / Hygienic Practices:** Avoid rubbing eyes while handling. Due to the physical nature of this product, ingestion is unlikely. Incidental ingestion of rubberized asphalt residue on hands can be avoided by using good personal hygiene practices. This product contains aromatic oils. Aromatic oils contain high concentrations of Polycyclic aromatic compounds, some of which have been shown to cause skin cancer in humans under conditions of poor personal hygiene and prolonged, repeated contact. Certain components of these compounds have also produced harmful effects in laboratory animals after absorption through the skin. Although these effects have been principally to the liver and blood-forming organs, the unborn young of these animals may also be affected. The animal experiments also showed that these effects can be prevented by thorough removal of the oil from the skin. Skin cleansing studies with aromatic oils show that the toxic effects are not likely to occur in humans if good personal hygiene practices are used.

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**Toxicological Data:****Toxicity Data:** LD50 and LC50.**Asphalt:** CAS# 8052-42-4 or 64742-93-4, no toxicity data available.**Unprocessed Naphthenic Oil:**

- LD50 Oral (Rat) = 5g/kg.
  - CAS# 64742-04-7
  - CAS# 64742-10-5
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**Ecological Data:**

None available at this time.

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**U.S. Disposal Data:**

Consult all regulations (federal, state, provincial, local, etc.) or a qualified waste disposal firm when characterizing waste for disposal. Dispose of waste in accordance with all applicable regulations.

**Canadian Disposal:** Consult all regulations (federal, state, provincial, local, etc.) or a qualified waste disposal firm when characterizing waste for disposal. Dispose of waste in accordance with all applicable regulations.

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**Transportation Data:****Proper Shipping Name:** Non-hazardous.**Hazard Class:** Non-hazardous.**Identification #:** Not applicable.**Label(s) Required:** Not applicable.

**DRYVIT SYSTEMS, INC.** Page 4 of 4

Flashing Tape

Date Issued: May, 1999 (replaces January, 1999)

Surface Freight Classification: Asphalt mixture, N.O.I.B.N.Canadian Regulations: TDG Class, Non-hazardous.

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**Regulatory Data:**SARA Title III Reporting Information Tier & II Hazard Categories: Delayed (*chronic*) health; immediate (*acute*) health.Contains Extremely Hazardous – SARA III Section 302 Ingredient: No.Contains Toxic Chemical Release – SARA III Section 313 Ingredient: No.Other Government Reporting Requirements:Chemical Inventory Certification:

- For U.S. Products Only: All ingredients contained in this product are included on the U.S. EPA Toxic Substances Control Act (TSCA) inventory or exempt from listing on the TSCA inventory.
  - For Canadian Products Only: All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the domestic Substance List (DSL) or Non-Domestic Substance List (NDSL).
  - California Proposition 65 Information: **WARNING!** This product contains substances known to the State of California to cause cancer, birth defects and other reproductive harm.
  - WHMIS Class: D2B. This product has been classified in accordance with the hazard criteria of the Controlled products Regulation (CPR). This Material Safety Data Sheet (MSDS) contains all the information required by the CPR.
  - Non-hazardous Ingredient Disclosure: Styrene Butadiene Polymer, CAS# 9003-55-8 and Polyolefin film.
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This Material Safety Data Sheet (MSDS) has been developed for current compliance with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

The information contained herein is based upon data considered accurate. Dryvit Systems, Inc. assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees and users assume all risks associated with the use of this material.

MSDS – *Flashing Tape (input 5/99; replaces 1/99)*

MSDS #076

# Dryvit Systems, Inc.



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## MATERIAL SAFETY DATA SHEET #077

### Product(s) Covered by this MSDS:

Flashing Tape Surface Conditioner

**Date Issued:** May, 1999 (Replaces January, 1999)

**DOT Classification:** Non-Hazardous

**HMIS Ratings:** Health: 1 Fire: 2

Reactivity: 0 Personal Protection: B

### Component Information and Hazards:

Ingredients	CAS#: List	OSHA-PEL	ACGIH-TLV	OTHER	% by Weight
Methyl Alcohol (Methanol)	00067-56-1	200 ppm 260 mg/m <sup>3</sup> TWA 250 ppm 310 mg/m <sup>3</sup> STEL (skin)	200 ppm 262 mg/m <sup>3</sup> TWA 250 ppm (skin)	NIOSH: 200 ppm 260 mg/m <sup>3</sup> TWA 250 ppm	7%
<b>Non-Hazardous Ingredient(s):</b>					
Butyl Acrylate, Methyl Methacrylate, Hydroxyethyl Acrylate Polymer	25951-38-6				
Water	7732-18-5				

### Physical/Chemical Characteristics:

A milky, white liquid with a latex paint type odor.

Boiling Point: 212°F.

Vapor Pressure (mm Hg): Not tested.

Vapor Density (Air = 1): Not tested.

Solubility in Water: Complete.

Bulk Density: (#/cubic feet): 8.8 pounds / gallon.

Odor Threshold: Not determined.

VOC Content: 1356 g/l (as applied).

Specific Gravity (H<sub>2</sub>O = 1): ~1.1.

% Volatiles: ~ 60 by weight.

Evaporation Rate (Butyl Acetate = 1): Not tested.

pH: ~8.5.

### Health Hazards Data / Potential Health Effects:

#### Routes of Exposure:

**Inhalation:** Inhalation of vapor or mist may cause irritation of the upper respiratory tract causing sore throat, coughing or breathing difficulties. Repeated or prolonged exposure may cause effects similar to those outlined under ingestion.

**Skin:** Skin contact may cause irritation resulting in temporary reddening of the skin. Skin absorption of the Methanol fraction of this product may cause metabolic effects similar to those outlined under ingestion.

**Eye:** Eye contact with solution, spray, mist or vapor may irritate eyes causing tearing and/or temporary reddening. Repeated or prolonged contact may result in conjunctivitis.

**Ingestion:** If swallowed, may cause irritation to the mouth, throat and stomach causing pain and nausea. When ingested Methanol acts as a narcotic/neurotoxin and may cause mild inebriation and subsequent drowsiness, headache, weakness, vertigo and violent pain in the back, abdomen, and extremities.

**Carcinogenicity:** This product is not carcinogenic according to NTP, IARC and OSHA.

**DRYVIT SYSTEMS, INC.** Page 2 of 4**Flashing Tape Surface Conditioner**

Date Issued: May, 1999 (replaces January, 1999))

**Emergency Overview: Warning Statements****CAUTION!** May cause irritation to eyes and skin. May be harmful if swallowed.

- Contains Acrylic Latex Polymer, CAS# 25951-38-6, Methanol, and CAS # 67-56-1.
  - May cause eye and skin irritation.
  - Inhalation of vapor or mist can cause respiratory irritation.
  - May be harmful if swallowed.
  - Read and understand all health and safety information on the product label and Material Safety Data Sheet (MSDS) before use.
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**Fire Hazard Data:**Flash Point: 141°F.Method Used: Closed cup.Flammable Limits:

- LEL: Not applicable
- UEL: Not applicable

N.F.P.A. Rating:

- H – 1
- F – 2
- R - 0

Extinguishing Media: To extinguish use water spray, carbon dioxide, dry chemical or alcohol-type.Special Fire Fighting Procedures: Not applicable.Unusual Fire and Explosion Hazards: Not applicable.**Reactivity Data:**Stable under Normal Conditions: Yes.Conditions or Materials to Avoid Which May React or Cause Instability: None known.Hazardous Decomposition or Byproducts: When water and alcohol evaporates, dried product may burn producing carbon monoxide, carbon dioxide and oxides of nitrogen.Hazardous Polymerization: Will not occur.Conditions to Avoid: None known.**First Aid Measures:**Inhalation: If inhaled, get fresh air immediately. If symptoms of exposure occur and persist, consult a physician.Eye / Skin: In case of eye or skin contact, flush effected area with water for 15 minutes. Wash skin with soap and water.Ingestion: If swallowed, induce vomiting and immediately consult a physician. Never give anything by mouth to an unconscious person.**Note:** Consult a physician if eye, skin or respiratory irritation develops.**Handling and Storage Data:**Precautionary Measures:

- Avoid breathing vapors and spray mists. Use with adequate ventilation and/or respiratory protection.
  - Avoid contact with eyes and skin.
  - Use with adequate ventilation.
  - Keep container closed when not in use.
  - Wash thoroughly after handling.
  - *For professional use only. Keep out of children's reach.*
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**Accidental Release Measures:**U.S. Releases: Prevent product from entering drinking water supplies or streams. Observing above precautions, collect liquid with inert, non-combustible material and remove for disposal.Canadian Releases: Prevent product from entering drinking water supplies or streams. Observing above precautions, collect liquid with inert, non-combustible material and remove for disposal.

**DRYVIT SYSTEMS, INC.** Page 3 of 4

**Flashing Tape Surface Conditioner**

Date Issued: May, 1999 (replaces January, 1999))

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**Exposure Controls/Personal Protection:**

Ventilation:

*Local Exhaust:* Recommended when used in confined area.

*Mechanical:* Recommended when used in confined area.

*Special:* Not generally required.

*Other:* Not generally required.

Respiratory Protection:

**Caution:** Methanol has poor warning properties and will result in a shortened organic vapor canister service life. It is recommended that self-contained breathing apparatus (SCBA) be used to maintain exposures below the regulatory limits.

Skin Protection: Rubber or other impervious gloves should be worn to prevent skin contact.

Eye Protection: Safety glasses or goggles should be worn to protect against eye contact with liquid or spray mist.

Other Protective Clothing or Equipment: Wear appropriate clothing to prevent skin contact.

Work / Hygienic Practices: Use work practices to prevent the buildup and subsequent inhalation of vapors. Prevent direct skin contact. Avoid rubbing eyes while handling. Always use good personal hygiene practices after handling.

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**Toxicological Data:**

Toxicity Data: LD50 and LC50.

Methyl Alcohol: LD50 (oral, rat) 5628 mg/kg.

CAS#: 67-56-1; <sup>LD</sup>LO (oral, human) 143-6222 mg/kg.

Reproductive Toxicity: Not applicable.

Teratogenicity: Not applicable.

Mutagenicity: Not applicable.

Toxicologically Synergistic Products: Not applicable.

Sensitization: Not applicable.

Irritantancy: Not applicable.

**Note:** *Toxicological testing of this product, as a whole, has been conducted.*

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**Ecological Data:**

None available at this time.

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**Disposal Data:**

U.S. Disposal: Consult all regulations (federal, state, provincial, local, etc.) or a qualified waste disposal firm when characterizing waste for disposal. Dispose of waste in accordance with all applicable regulations.

Canadian Disposal: Consult all regulations (federal, state, provincial, local, etc.) or a qualified waste disposal firm when characterizing waste for disposal. Dispose of waste in accordance with all applicable regulations.

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**Transportation Data:**

Proper Shipping Name: Non-hazardous.

Hazard Class: Non-hazardous.

Identification #: Not applicable.

Label(s) Required: Not applicable.

Surface Freight Classification: Adhesives NO.'S.

Canadian Regulations: TDG Class, Not applicable.

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**Regulatory Data:**

SARA Title III Reporting Information Tier I & II Hazard Categories: Immediate (*Acute*) health.

Contains Extremely Hazardous – SARA III Section 302 Ingredient: No.

Contains Toxic Chemical Release – SARA III Section 313 Ingredient: No.

Other Government Reporting Requirements:

Chemical Inventory Certification:

- For U.S. Products Only: All ingredients contained in this product are included on the U.S. EPA Toxic Substances Control Act (TSCA) inventory or exempt from listing on the TSCA inventory.
- For Canadian Products Only: All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the Domestic Substance List (DSL) or Non-Domestic Substance List (NDSL).
- WHMIS Class: Class B, Division 3 / Combustible Liquids.

**DRYVIT SYSTEMS, INC.** Page 4 of 4

**Flashing Tape Surface Conditioner**

Date Issued: May, 1999 (replaces January, 1999))

***Note: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR). This Material Safety Data Sheet (MSDS) contains all the information by the CPR.***

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This Material Safety Data Sheet (MSDS) has been developed for current compliance with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

The information contained herein is based upon data considered accurate. Dryvit Systems, Inc. assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees and users assume all risks associated with the use of this material.

*MSDS – Flashing Tape Surface Conditioner (input 5/99; replaces 1/99)*  
*MSDS #077*

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## MATERIAL SAFETY DATA SHEET #16

### Product(s) Covered by this MSDS:

- 1) Quarzputz® Finish
- 2) Sandblast® Finish
- 3) Freestyle® Finish

**Date Issued:** April, 1999(Replaces December, 1994)

**DOT Classification:** Non-Hazardous

**HMIS Ratings:** Health: 1 Fire: 0

Reactivity: 0 Personal Protection: A

*(Products offered in a wide variety of colors).*

### Component Information and Hazards:

Ingredients	CAS#; List	OSHA-PEL	ACGIH-TLV	% by Weight
		mg/m <sup>3</sup>	mg/m <sup>3</sup>	
Sand (Encapsulated)	14808-60-7	15	10	63 – 67%
Water	7732-18-5	NE	NE	12 – 15%
Acrylic Latex Polymer/Binder	Not Applicable	NE	NE	8.5 – 10.2%
Titanium Dioxide (Rutile)	13463-67-7	NE	5	1.0 – 5.5%

### Physical and Chemical Characteristics:

Opaque, semi-solid, wet stucco-like material. Slight ammonia odor.

Specific Gravity: 1.75 – 1.9.

### Fire Hazard Data:

**Flash Point:** Not applicable.

**Extinguishing Media:** Use extinguishing material suitable for surrounding fire. Closed plastic containers may build up pressure, rupture, or melt due to extreme heat exposure.

**Fire Fighters:** Wear positive pressure, self-contained breathing apparatus (SCBA) in enclosed areas.

### Reactivity Data:

**Stability:** Stable

**Thermal Decomposition Products:** CO, CO<sub>2</sub>, CN, NO<sub>x</sub>

**Hazardous Polymerization:** Will not occur. Not compatible with strong oxidizing agents or strong acids.

### Health Hazard Data:

**Routes of Entry:** No known specific skin, inhalation or ingestion hazard.

**Carcinogens:** None listed.

**Health Hazards:** Irritating and abrasive if splashed into the eye because of sand content; may be a skin irritant to sensitive individuals. No acute or chronic hazards are known for the material as packaged at point of manufacture.

**Symptoms of Overexposure:** None established. Non-specific irritation is possible in sensitive individuals. No known medical conditions aggravated by exposure.

**Emergency and First Aid Procedures:** Treat for symptoms. If irritation of the eyes, nose, or throat occurs, move to fresh air. If material gets in eyes, wash eyes immediately with large amounts of water, lifting eye lids occasionally. Get medical attention.

**DRYVIT SYSTEMS, INC.** Page 2 of 2 Quarzputz® Finish / Sandblast® Finish / Freestyle® Finish  
Date Issued: April, 1999 (replaces December, 1994)

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**Control and Protective Measures:**

Protective Gloves: As needed for physical protection.

Eye Protection: Safety or splash goggles recommended.

Other Equipment: Long sleeves, apron as needed.

Respiratory Protection: Not required for wet mixture used exterior or in well-ventilated areas. Approved mechanical filter respirator should be used to remove solid airborne particles during spray, sawing, and sanding operations.

Ventilation: None required when used exterior. Provide adequate air movement and mechanical ventilation if used in an enclosed area.

Work Practices: Observe rules for good personal hygiene and work practices. Wash hands before smoking, eating, or using toilet facilities.

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**Precautions for Safe Handling & Use/Leak Procedures:**

Spills: Shovel and recover; then dispose of as common waste. Do not flush to sewer or streams: material can clog drains and make streams turbid.

Waste Disposal: Non-regulated material.

Storage: Keep from freezing.

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**EPA Supplier Notification/Environmental:**

- These trade name products contain no chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Re-authorization Act of 1986 (SARA) and 40 CFR Part 372.
  - These products contain no ingredients on the list of Extremely Hazardous Substances for SARA Emergency Planning.
  - Tier I / Tier II Hazard Category (40 CFR 370): Immediate Health Hazard.
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This Material Safety Data Sheet (MSDS) has been developed for current compliance with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

The information contained herein is based upon data considered accurate. Dryvit Systems, Inc. assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees and users assume all risks associated with the use of these materials.

*MSDS –Quarzputz® Finish/ Sandblast® Finish/ Freestyle® Finish (input 4/99; replaces 12/94) MSDS #16*