

**W. R. GRACE**  
MATERIAL SAFETY DATA SHEET

Product Name: Serpimastic Trowelable/Sprayable  
MSDS ID Number: Z-01664

MSDS Date: 09/18/2006

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Serpimastic Trowelable/Sprayable  
**MSDS Number:** Z-01664  
**Cancelled MSDS Number:** Z-01611  
**MSDS Date:** 09/18/2006  
**Chemical Family Name:**  
**Product Use:** Filled Vinyl & Acrylic Emulsion  
**Chemical Formula:** Mixture-NA  
**CAS # (Chemical Abstracts Service Number):** Mixture-NA  
**Manufactured by:**

W.R.Grace & Co.-Conn.	Grace Canada, Inc.
62 Whittemore Avenue	294 Clements Road West
Cambridge, MA 02140	Ajax, Ontario L1S 3C6

**In Case of Emergency Call:**

In USA: (617) 876-1400 In Canada: (905) 683-8561

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Ingredient</b>	<b>CAS#</b>	<b>Percent (max)</b>
1,2-Propylene glycol	000057-55-6	< 1
2-Propenoic acid, polymer...	052640-81-0	10-25
Aluminum oxide	001344-28-1	10-25
Frits, chemicals	065997-18-4	10-25
Glass Oxide, Chemical	065997-17-3	1-10
Magnesium Aluminum Silicate	012174-11-7	< 1
Mullite (Al <sub>6</sub> O <sub>5</sub> (SiO <sub>4</sub> ) <sub>2</sub> )	001302-93-8	1-10
Quartz	014808-60-7	< 1
Vinyl Acetate Polymer	009003-20-7	1-10
Zinc borate	001332-07-6	1-10
Titanium dioxide	13463-67-7	<1

**SECTION 3 - HAZARDS IDENTIFICATION**

**Emergency Overview:**

**Caution!**

Causes eye irritation.  
Causes skin irritation.  
Causes respiratory tract irritation.  
Causes digestive tract irritation if ingested.

**HMIS Rating:**

Health:	1
Flammability:	0
Reactivity:	0
Personal Protective Equipment:	B (See Section 8)

**Potential Health Effects:**

**Inhalation:** Spray applications of this material may create aerosols which may be irritating to the upper respiratory tract, nose, and throat.  
May cause gagging.  
Effects include: Nausea, sneezing, coughing, tightness of chest. Hypersensitive individuals may experience allergic respiratory reaction, wheezing.  
**Eye Contact:** Spray applications of this material may create aerosols which may be irritating to the eyes.  
Prolonged eye contact can result in tissue damage.  
**Skin Contact:** Skin contact causes irritation.  
Prolonged skin contact can result in irritation causing redness and itching.  
May cause sensitization.  
Hypersensitive individuals may develop an allergic reaction resulting in dermatitis, rash or hives.  
**Skin Absorption:** Not expected to be harmful if absorbed through the skin.

**W. R. GRACE**  
**MATERIAL SAFETY DATA SHEET**

Product Name: Serpimastic Trowelable/Sprayable  
 MSDS ID Number: Z-01664

MSDS Date: 09/18/2006

**Ingestion:** If ingested, causes irritation to the linings of the mouth, esophagus and stomach.

**SECTION 4 - FIRST AID MEASURES:**

**Skin Contact:** Wash with soap and water.

If discomfort or irritation persists, consult a physician.

Remove contaminated clothing and wash before reuse.

**Eye Contact:** Flush eyes with water for at least 15 minutes while holding eyelids open.

If discomfort or irritation persists, consult a physician.

**Ingestion:** Do not induce vomiting.

Never give anything by mouth to an unconscious person.

If discomfort or irritation persists, consult a physician.

**Inhalation:** If symptoms develop, get fresh air. If symptoms persist, consult a physician.

If breathing has stopped, give artificial respiration then oxygen if needed.

**SECTION 5 - FIRE AND EXPLOSION HAZARD DATA**

**Flash Point:** Not Applicable

**Flash Point Method:** Not Applicable

**Lower Explosion Limit:** Not Available

**Upper Explosion Limit:** Not Available

**Auto-Ignition Temperature:** Not Available

**NFPA Rating:**

**Health:** 1

**Flammability:** 0

**Reactivity:** 0

**Extinguishing Media:** Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog.

**Special Fire Fighting Procedures:**

Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to vapors or products of combustion exist. Isolate area and keep unnecessary people away.

**Unusual Fire and Explosion Hazards:** During fire, oxides of nitrogen may be evolved.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES:**

**Spills/Leaks:** Prevent spills from entering drinking water supplies, streams, or sewers.

Collect material with an inert, noncombustible material and remove for disposal.

**SECTION 7 - HANDLING AND STORAGE**

**Precautionary Measures:**

Avoid contact with eyes, skin and clothing.

Do not take internally.

Practice good personal hygiene to avoid ingestion.

Spray application requires use of respiratory protection.

Wash clothing before reuse.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT**

**EXPOSURE GUIDELINES (US)**

Ingredient	ACGIH TLV			OSHA PEL			Other
	TWA	STEL	Ceiling	TWA	STEL	Ceiling	
2-Propenoic acid, polymer...	-	-	-	-	-	-	-
Aluminum oxide	10 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica)	-	-	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	-	-	-
Frits, chemicals	-	-	-	-	-	-	-
Glass Oxide, Chemical	-	-	-	-	-	-	-
Mullite (Al6O5(SiO4)2)	-	-	-	-	-	-	-
Quartz	0.05 mg/m3 TWA (respirable fraction)	-	-	0.1 mg/m3 TWA (respirable dust)	-	-	-
Titanium dioxide	10 mg/m3 TWA	-	-	10 mg/m3 TWA (total dust)	-	-	-
Vinyl Acetate Polymer	-	-	-	-	-	-	-
Zinc borate	-	-	-	-	-	-	-

**W. R. GRACE**  
MATERIAL SAFETY DATA SHEET

Product Name: Serpimastic Trowelable/Sprayable

MSDS ID Number: Z-01664

MSDS Date: 09/18/2006

\*Contains formaldehyde below 0.1% threshold. Product is capable of releasing formaldehyde under certain conditions. Exposure during typical application is expected to be insignificant. Exposure to formaldehyde vapor is a potential concern if product is applied under confined space conditions. Consult appropriate exposure guidelines for formaldehyde. (OSHA: 0.75 ppm-TWA, 2.0 ppm - STEL, ACGIH 0.3 ppm Ceiling)

\*Respirable Quartz (Crystalline Silica) and Titanium dioxide can result in lung disease (i.e. silicosis and or lung cancer). However due to the physical nature of this product (liquid) exposures are not expected unless after product dries it is abraded and airborne dust is created.

**EXPOSURE GUIDELINES (CANADA)**

Employers should consult local Provincial regulatory limits for exposure guidelines which may vary locally.

**Engineering Controls:** Use local exhaust ventilation or increased general ventilation when possible.

**Personal Protective Equipment:**

**Respiratory Protection:** Respiratory protection is required during spray application. A dust/mist respirator such as a 3M Type P-95 or 3M Type N-95 with organic vapor protection (or equivalent) is adequate. Specific working conditions, which must be assessed periodically, may require an increased level of respiratory protection. A respirator equipped with organic vapor cartridges may be required indoors and in other poorly ventilated areas.

Respirators may not be required during non-spray applications and other specific situations.

In all cases, maintain exposures below governmental limits specified in Section 2. (See Work/Hygenic Practices for additional information.)

A NIOSH approved respirator for Formaldehyde vapor is required whenever exposures exceed regulatory limits. For additional information, refer to US OSHA Regulations 29 CFR 1910.° 134.

**Skin Protection:** Impervious (PVC, latex or nitrile) gloves should be worn anytime direct contact is possible.

**Eye Protection:** Wear goggles to prevent exposure to high vapor or mist concentrations. Wear goggles or safety glasses with side shields and a full-face shield to prevent contact due to splashing.

**Work/Hygenic Practices:** Work clothing with long sleeves/long pants and work boots must be worn. Clothing must be laundered before reuse. Disposable tyvek suits may be used during spray applications. Quartz (Crystalline silica) is a naturally occurring mineral that is contained in materials that are mined from the earth's surface such as sand, limestone, clay and gypsum (Calcium sulfate). Total quartz is a value usually representing the combined fraction of large non-respirable sized particles and of respirable sized particles (less than ten microns in aerodynamic diameter). It is only the respirable sized fraction of total quartz that is recognized as hazardous by professionals in the field of occupational health and by most regulatory agencies.

The product contains compounds subject to exposure guidelines and/or identified as carcinogens (see section 8 and 11).

Due to the physical nature of this product (liquid) these compounds are unlikely to reach exposure limits unless after product dries it is abraded and airborne dust is created.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Liquid
<b>Appearance/Odor:</b>	White Mastic. Mild latex odor.
<b>Odor Threshold:</b> (ppm)	Not Determined
<b>pH:</b>	Not Available
<b>Vapor Pressure:</b> (Mm Hg)	Unknown
<b>Vapor Density:</b> (Air = 1)	.1
<b>Solubility In Water:</b>	Appreciable
<b>Specific Gravity:</b> (Water = 1)	Not Available
<b>Evaporation Rate:</b> (Butyl Acetate = 1)	1
<b>Boiling Point:</b>	>212°F/100°C
<b>Viscosity:</b>	Unknown
<b>Bulk Density:</b> (Pounds/Cubic Foot)(Pcf)	Not Applicable
<b>Volatiles (gr/L):</b> (70°F)	17.31

**W. R. GRACE**  
MATERIAL SAFETY DATA SHEET

Product Name: Serpimastic Trowelable/Sprayable  
MSDS ID Number: Z-01664

MSDS Date: 09/18/2006

**SECTION 10 - STABILITY AND REACTIVITY**

**Chemical Stability:** Stable  
**Conditions To Avoid:** None known for this product.  
**Hazardous Polymerization:** Will not polymerize.  
**Hazardous Decomposition Products:** Carbon dioxide and Carbon monoxide.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Ingredient(No data unless listed.)**                      **CAS Number**                      **LD50 and LC50**  
**Carcinogenicity:**

Ingredient	IARC Group 1	IARC Group 2A	IARC Group 2B	NTP Known	NTP Suspect	OSHA
2-Propenoic acid, polymer...	No	No	No	No	No	No
Aluminum oxide	No	No	No	No	No	No
Frits, chemicals	No	No	No	No	No	No
Glass Oxide, Chemical	No	No	No	No	No	No
Magnesium Aluminum Silicate	No	No	Yes	No	No	No
Mullite (Al6O5(SiO4)2)	No	No	No	No	No	No
Quartz	Yes	No	No	No	No	Yes
Vinyl Acetate Polymer	No	No	No	No	No	No
Zinc borate	No	No	No	No	No	No
Titanium dioxide	No	No	Yes	No	No	No

\*Contains formaldehyde below 0.1% threshold. Product is capable of releasing formaldehyde under certain conditions. Exposures during typical applications are expected to be insignificant. Exposure to formaldehyde vapor is a potential concern if product is applied under confined space conditions. NTP: Suspect Carcinogen. IARC: Group 1. OSHA: Potential.

\*Respirable Quartz (Crystalline Silica) and Titanium dioxide can result in lung disease (i.e. silicosis and or lung cancer). However due to the physical nature of this product (liquid) exposures are not expected unless after product dries it is abraded and airborne dust is created.

**Mutagenicity:** Not applicable.  
**Teratogenicity:** Not applicable.  
**Reproductive Toxicity:** Not applicable.

**SECTION 12 - ECOLOGICAL INFORMATION**

**Environmental Fate:** No data available for product.  
**Ecotoxicity:** No data available for product.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Waste Disposal Procedures:** Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing waste for disposal. According to EPA (40 CFR § 261), waste of this product is not defined as hazardous. Dispose of waste in accordance with all applicable regulations.

**SECTION 14 - TRANSPORTATION INFORMATION**

**Proper Shipping Name:** Not Applicable  
**UN/NA Number:** Not Applicable  
**Domestic Hazard Class:** Nonhazardous  
**Surface Freight Classification:** Not Applicable  
**Label/Placard Required:** Not Applicable

**SECTION 15 - REGULATORY INFORMATION**

**REGULATORY CHEMICAL LISTS:**

**CERCLA (Comprehensive Response Compensation and Liability Act):**  
**(None present unless listed below)**

<b>Chemical Name</b>	<b>CAS #</b>	<b>Wt %</b>	<b>CERCLA RQ</b>
Zinc borate	001332-07-6	5.21	1000 lb final RQ; 454 kg final RQ

**SARA Title III (Superfund Amendments and Reauthorization Act)**

**W. R. GRACE**  
MATERIAL SAFETY DATA SHEET

Product Name: Serpimastic Trowelable/Sprayable  
MSDS ID Number: Z-01664

MSDS Date: 09/18/2006

**SARA Section 312/Tier I & II Hazard Categories:**

Health Immediate (acute)	No
Health Delayed (chronic)	No
Flammable	No
Reactive	No
Pressure	No

**302 Reportable Ingredients (Identification Threshold 1%):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>	<u>SARA 302 TPQ</u>
----------------------	--------------	-------------	---------------------

**313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
Acetaldehyde	000075-07-0	.00138
Vinyl acetate	000108-05-4	.01713
Acrylamide	000079-06-1	.00083
Acrylonitrile	000107-13-1	.00028
Aluminum oxide	001344-28-1	17.3932
Ammonia	007664-41-7	.003
Ethyl acrylate	000140-88-5	.00221
Formaldehyde	000050-00-0	.01903
Glycol ethers	RR-00067-9	.0018
Zinc compounds	RR-00578-7	5.21

**National Volatile Organic Compound Emission Standards For Architectural Coatings:**

**Volatile Organic Content:** (gr/L) 17.31

**WHMIS Classification(s):** D2 B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR). This MSDS contains all the information required by the CPR.

**State Regulatory Information:**

**California Proposition 65:** WARNING! This product contains substances known to the state of California to cause cancer, birth defects or other reproductive harm.

**Massachusetts Hazardous Substance List(Identification threshold 0.001%(1ppm)):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
Acetaldehyde	000075-07-0	.00138
Vinyl acetate	000108-05-4	.01713
Acrylamide	000079-06-1	.00083
Acrylonitrile	000107-13-1	.00028
Ammonia	007664-41-7	.003
Ethyl acrylate	000140-88-5	.00221
Formaldehyde	000050-00-0	.01903
Quartz	014808-60-7	.315

**New Jersey Hazardous Substance List(Identification threshold (0.1%)):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
Aluminum oxide	001344-28-1	17.3932
Zinc compounds	RR-00578-7	5.21

**Pennsylvania Hazardous Substance List(Identification threshold 0.01%):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
Formaldehyde	000050-00-0	.01903

**CHEMICAL INVENTORY STATUS:**

**All chemicals in this product are listed or exempt from listing in the following countries:**

US	CANADA		EUROPE	AUSTRALIA	JAPAN	KOREA	PHILIPPINES
TSCA	DSL	NDSL	EINECS/ELINCS	AICS	ENCS	ECL	PICCS
Yes	Not Determined	Yes	Not Determined	Not Determined	Not Determined	Not Determined	Not Determined

**W. R. GRACE**

MATERIAL SAFETY DATA SHEET

Product Name: Serpimastic Trowelable/Sprayable

MSDS ID Number: Z-01664

MSDS Date: 09/18/2006

---

**SECTION 16 - OTHER INFORMATION**

**Non-Hazardous Ingredient Disclosure:**

**Chemical Name**

Water

Zinc compounds

**CAS Number**

007732-18-5

RR-00578-7

**Prepared by:**

EH&S Department

**Approved by:**

EH&S Department

**Approved Date:**

09/18/2006

**Disclaimer:**

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."