



# MATERIAL SAFETY DATA SHEET

**Product Trade Name: TegraSeal TegraStop WaterStop**

**Revision Date:** 15-May-2010

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** TegraSeal TegraStop WaterStop  
**Synonyms:** None  
**Chemical Family:** Mineral

**Manufacturer/Supplier:** TegraSeal Products, LLC  
9231 Penn Avenue S, Suite 2A  
Bloomington, MN 55431  
Telephone: (952) 888-1816  
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**Prepared By**

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Bentonite	1302-78-9	> 60.0
Water	7732-18-5	10.0 - 30.0
Butyl acrylate resin	9003-49-0	3.0 - 7.0
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	1.0 - 5.0
Silica (crystalline-tridymite)	15468-32-3	<1.0
Silica (crystalline-cristobalite)	4464-46-1	<1.0
Polyethylene	9002-88-4	<1.0

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

Gray. Not applicable under normal conditions of use. Generally not required under normal conditions of use.

### Acute Potential Health Effects/ Routes of Entry

Inhalation : Not applicable under normal conditions of use.

Eyes : Not applicable under normal conditions of use.

Ingestion : Not applicable under normal conditions of use.

Skin : May cause mild irritation.

### Aggravated Medical Conditions

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

### Chronic Health Effects

This product contains granular materials which may cause mechanical skin, eye or respiratory irritation. Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica.

**Target Organs:** Skin, Eye, Lung.

## 4. FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

**Inhalation :** Generally not required under normal conditions of use.  
**Eye contact :** Generally not required under normal conditions of use.  
**Skin contact :** Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.  
**Ingestion :** Not applicable under normal conditions of use.

Notes to physician : Not applicable.

## 5. FIRE FIGHTING MEASURES

**Flash Point/Range (F):** Not applicable  
**Flash Point/Range (C):** Not applicable  
**Flash Point Method:** Not applicable  
**Autoignition Temperature (F):** Not applicable  
**Autoignition Temperature (C):** Not applicable  
**Flammability Limits in Air - Lower (%):** Not applicable  
**Flammability Limits in Air - Upper (%):** Not applicable

**Fire Extinguishing Media** All standard firefighting media.

**Special Exposure Hazards** Not applicable.

**Special Protective Equipment for Fire-Fighters** Not applicable.

**NFPA Ratings:** Health 0, Flammability 0, Reactivity 0  
**HMS Ratings:** Health 0, Flammability 0, Reactivity 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures** Use appropriate protective equipment. Avoid creating and breathing dust.  
**Environmental Precautionary Measures** None known.

**Procedure for Cleaning / Absorption** Collect using dustless method and use appropriate methods for collection, storage and disposal.

## 7. HANDLING AND STORAGE

<b>Handling Precautions</b>	Material is slippery when wet.
<b>Storage Information</b>	Store under normal warehouse conditions.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering Controls</b>	General ventilation is acceptable.
<b>Respiratory Protection</b>	Not required under normal working conditions.
<b>Hand Protection</b>	Normal work gloves.
<b>Skin Protection</b>	Wear clothing appropriate for the work environment. Dusty clothing should be laundered before reuse.
<b>Eye Protection</b>	Wear safety glasses or goggles to protect against exposure.
<b>Other Precautions</b>	None known.

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Regulation</b>	<b>Limit</b>	<b>Form</b>		
Bentonite	1302-78-9	ACGIH TWA:	3 mg/m3	Respirable particles.		
		ACGIH TWA:	10 mg/m3	Inhalable particles.		
		OSHA PEL:	15 mg/m3	Total dust.		
		OSHA PEL:	5 mg/m3	Respirable fraction.		
		OSHA TWA:	15 mg/m3	Total dust.		
		OSHA TWA:	5 mg/m3	Respirable fraction.		
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	ACGIH TWA:	0.05 mg/m3	Respirable fraction.		
		OSHA TWA:	0.1 mg/m3	Respirable.		
		OSHA TWA:	0.1 mg/m3	Respirable.		
		OSHA TWA:	0.3 mg/m3	Total dust.		
		OSHA PEL:	15 mg/m3	Total dust.		
		OSHA PEL:	5 mg/m3	Respirable fraction.		
		Silica (crystalline cristobalite)	14464-46-1	ACGIH TWA:	0.05 mg/m3	Respirable fraction.
				OSHA TWA:	0.05 mg/m3	Respirable.
OSHA TWA:	0.15 mg/m3			Total dust.		
OSHA PEL:	15 mg/m3			Total dust.		
Silica (crystalline tridymite)	15468-32-3	OSHA PEL:	5 mg/m3	Respirable fraction.		
		ACGIH TWA:	0.05 mg/m3	Respirable fraction.		
		OSHA TWA:	0.05 mg/m3	Respirable.		
		OSHA TWA:	0.15 mg/m3	Total dust.		
		OSHA PEL:	15 mg/m3	Total dust.		
		OSHA PEL:	5 mg/m3	Respirable fraction.		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Color :	Gray
Odor :	None
pH :	Not applicable.
Vapour pressure :	Not applicable.
Vapor density :	Not applicable.
Melting point/range :	Not available.
Freezing point :	Not available.
Boiling point/range :	Not available.
Water solubility :	Gels

Specific Gravity : 1.7  
% Volatile Weight : 13 %

## 10. STABILITY AND REACTIVITY

<b>Stability Data:</b>	Stable
<b>Hazardous Polymerization:</b>	Will Not Occur
<b>Conditions to Avoid</b>	None anticipated
<b>Incompatibility (Materials to Avoid)</b>	Hydrofluoric acid.
<b>Hazardous Decomposition Products</b>	Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C).
<b>Additional Guidelines</b>	Not applicable

## 11. TOXICOLOGICAL INFORMATION

<b>Principle Route of Exposure</b>	Eye or skin contact, inhalation.
<b>Inhalation</b>	Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC, Group 1). There is sufficient evidence in experimental animals for the carcinogenicity of tridymite (IARC, Group 2A). Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also have serious chronic health effects (See "Chronic Effects/Carcinogenicity" subsection below).
<b>Skin Contact</b>	May cause mechanical skin irritation.
<b>Eye Contact</b>	May cause eye irritation.
<b>Ingestion</b>	None known
<b>Aggravated Medical Conditions</b>	Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to quartz dust.
<b>Chronic Effects/ Carcinogenicity</b>	<p>Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.</p> <p>Cancer Status: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans (Group 1 - carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A - possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as "Known to be a human carcinogen".</p>

Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.

**Other Information**

For further information consult "Adverse Effects of Crystalline Silica Exposure" published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, pages 761-768 (1997).

**Toxicity Tests**

**Oral Toxicity:** Not determined

**Dermal Toxicity:** Not determined

**Inhalation Toxicity:** Not determined

**Primary Irritation Effect:** Not determined

**Carcinogenicity** Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997).

**Genotoxicity:** Not determined

**Reproductive / Developmental Toxicity:** Not determined

**12. ECOLOGICAL INFORMATION**

**Mobility (Water/Soil/Air)** Not determined  
**Persistence/Degradability** Not determined  
**Bio-accumulation** Not determined

**Ecotoxicological Information**

**Acute Fish Toxicity:** TLM96: 10000 ppm (Oncorhynchus mykiss)  
**Acute Crustaceans Toxicity:** Not determined  
**Acute Algae Toxicity:** Not determined

**Chemical Fate Information** Not determined

**Other Information** Not applicable

**13. DISPOSAL CONSIDERATIONS**

**Disposal Method** Bury in a licensed landfill according to federal, state, and local regulations.

**Contaminated Packaging** Follow all applicable national or local regulations.

**Disposal Method :** As purchased, this product, when discarded, is not a listed or characteristic hazardous waste according to Federal regulations (40 CFR 261). Check local, regional, state or provincial regulations for applicable requirements for disposal. Any processing, using, alteration or chemical additions to the product, as purchased, may alter the disposal requirements. Under Federal regulations, it is the generator's responsibility to

determine if a waste is a hazardous waste. Empty containers may retain product residue. Do not reuse.

## 14. TRANSPORT INFORMATION

### Land Transportation

**DOT**

Not restricted

**Canadian TDG**

Not restricted

**ADR** Not restricted

### Air Transportation

**ICAO/IATA** Not restricted

### Sea Transportation

**IMDG** Not restricted

### Other Shipping Information

**Labels:** None

## 15. REGULATORY INFORMATION

### US Regulations

**US TSCA Inventory** All components listed on inventory.

**EPA SARA Title III Extremely Hazardous Substances** Not applicable

**EPA SARA (311,312) Hazard Class** Acute Health Hazard  
Chronic Health Hazard

**EPA SARA (313) Chemicals** This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).

**EPA CERCLA/Superfund Reportable Spill Quantity** Not applicable.

**EPA RCRA Hazardous Waste Classification** If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

**California Proposition 65** The California Proposition 65 regulations apply to this product.

**MA Right-to-Know Law** One or more components listed.

**NJ Right-to-Know Law** One or more components listed.

**PA Right-to-Know Law** One or more components listed.

## Canadian Regulations

**Canadian DSL Inventory** All components listed on inventory.

**WHMIS Hazard Class** Crystalline silica

### North American Inventories:

All components are listed or exempt from the TSCA inventory.  
This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

### U.S. Federal Regulations:

SARA 313 Components : None present or none present in regulated quantities.

SARA 311/312 Hazards : Acute Health Hazard

OSHA Hazardous Components :

Bentonite	1302-78-9
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
Silica (crystalline-cristobalite)	14464-46-1
Silica (crystalline-tridymite)	15468-32-3

OSHA Status: Considered Irritant  
hazardous based on the  
following criteria:

OSHA Flammability : Not Regulated

Regulatory VOC (less water and  
exempt solvent) 0 g/l

VOC Method 310 : 0 %

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:

Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
Silica (crystalline-cristobalite)	14464-46-1
Silica (crystalline-tridymite)	15468-32-3

### U.S. State Regulations:

MASS RTK Components : Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

Penn RTK Components : Bentonite 1302-78-9

Water 7732-18-5

n-Butyl acrylate resin 9003-49-0

Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

NJ RTK Components :	Bentonite	1302-78-9
	Water	7732-18-5
	n-Butyl acrylate resin	9003-49-0
	Crystalline Silica (Quartz)/ Silica Sand	14808-60-7
	Silica (crystalline-tridymite)	15468-32-3
	Silica (crystalline-cristobalite)	14464-46-1

Chemicals known to the State of California to cause cancer birth defects and/or other reproductive harm:

14808-60-7	Crystalline Silica (Quartz)/ Silica Sand
14464-46-1	Silica (crystalline-cristobalite)
15468-32-3	Silica (crystalline-tridymite)

## 16. OTHER INFORMATION

### Additional Information

For additional information on the use of this product, contact your local TegraSeal representative.

For questions about the Material Safety Data Sheet for this or other TegraSeal products, contact 952-888-1816.

### HMIS Rating :

Health	1	0 = Minimum
Flammability	1	1 = Slight
Reactivity	0	2 = Moderate
PPE		3 = Serious
		4 = Severe

### Disclaimer Statement

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.