



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: 3500SI **Product Code:** SI4
Product Type: Intumescent Spray Sealant **Use:** Sprayable Intumescent Firestopping Sealant
Chemical Family: Organic/Inorganic

Company Address:

Passive Fire Protection Partners
 1412 Derwent Way
 Delta, BC V3M 6H9
 Canada

Contact Information:

Telephone: 800.810.1788
 MEDICAL EMERGENCY Phone: Poison Control Center
 1-877-671-4608 (toll free) or 1-303-592-1711
 TRANSPORT EMERGENCY Phone: CHEMTREC
 1-800-424-9300 (toll free) or 1-703-527-3887
 Internet: www.firestop.com

SECTION 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Physical Hazards: None
Oral: Not Classified
Dermal: Not Classified
Inhalation: Spraying of this product may create aerosols, which may be an irritant to the upper respiratory tract (i.e. nose and throat).
Skin Corrosion / Irritation: Not Classified
Serious Eye Damage / Eye Irritation: Not Classified
Respiratory or Skin Sensitization: Not Classified
Germ Cell Mutagenicity: Not Classified
Carcinogenic: Not Classified
Reproductive Toxicology: Not Classified
Target Organ System Toxicity - Single Exposure: Not Classified
Target Organ System Toxicity - Repeated Exposure: Not Classified
Aspiration Toxicity: Not Classified

ENVIRONMENTAL HAZARDS

Hazards to the Aquatic Environment: Not Classified
Acute Aquatic Toxicity: Not Classified
Chronic Aquatic Toxicity: Not Classified
Bioaccumulation Potential: Not Classified
Rapid Degradability: Not Classified

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS:

Hazard Symbols:



Serious eye damage / eye irritation (Category 2A)
Other hazards which do not result in classification:
 Skin irritation (Category 3)
 Acute hazards to the aquatic environment (Category 1)
 Long-term hazard to the aquatic environment (Category 1)

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Precautionary Statements:

- H320 - Causes eye irritation
- H316 - Causes mild skin irritation
- H317 - May cause an allergic skin reaction
- P102 - Keep Out Of Reach of Children
- P201 - Obtain special instruction before use
- P202 - Do not handle until all safety precautions have been read and understood
- P261 - Avoid breathing fume, mist, vapours
- P264 - Wash Hands Thoroughly After Handling
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P280 - Wear protective gloves, protective clothing and eye protection.
- P302+352 - IF ON SKIN: Wash with soap and water.
- P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.
- P305+351+338: IF IN EYES - Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P337+313 - If eye irritation persists: Get medical advice or attention.
- P362+ P364 - Take off contaminated clothing and wash before reuse.
- P405 - Store locked up.
- P501 - Dispose of contents /container in accordance with local regulations..

POTENTIAL HEALTH EFFECTS:

- Inhalation:** May cause irritation to nose and throat.
- Skin contact:** May cause slight irritation to skin.
- Eye contact:** May cause slight irritation to eyes on contact.
- Ingestion:** Not expected to be harmful by ingestion. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

Existing conditions aggravated by exposure: None known

SECTION 3. COMPOSITION /INFORMATION ON INGREDIENTS

Hazardous Components	CAS NUMBER	Percentage %*
Limestone	1314-65-3	20 - 30
Vinyl Acetate Polymer	Proprietary 18	20 - 45
Sulphuric acid, compound with graphite	12777-87-6	6 - 12
Silica - Amorphous, gel	112926-00-8	0.5 - 1.5
Propylene glycol	57-55-6	0.5 - 1.5
Texanol	25265-77-4	0.5 - 1.5
TiO ₂	13463-67-7	0.1 - 1
Vinyl acetate	108-05-4	0.1 - 0.4
Chlorothalonil	1897-45-6	0.1 - 0.5

Note: The Vinyl Acrylic Polymer is a compound of unknown toxicity. However, according to its chemical family, no adverse effect is expected under normal conditions of use.

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protection.

SECTION 4. FIRST AID MEASURES

- Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen by trained personnel. If a problem develops or persists, seek medical attention.

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Skin contact:	Wash skin with warm water and mild soap. Remove contaminated clothing and wash before reuse. If a problem develops or persists, seek medical attention.
Eye contact:	Immediately flush with plenty of water. Remove contact lenses. Flush with water for at least 15 minutes. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.
Ingestion:	DO NOT induce vomiting, unless recommended by medical personnel. If victim is conscious wash out mouth with water. Never give anything by mouth if victim is unconscious or convulsing. Seek medical attention or contact a Poison Centre immediately.
Symptoms:	May cause redness and slight irritation of the skin and to eyes. May cause an allergic reaction of the skin.
Notes to the physician:	Treat symptomatically. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5. FIRE FIGHTING MEASURES

Flash point:	Not applicable
Autoignition temperature:	Not available
Flammable / Explosive limits - lower:	Not available
Flammable / Explosive limits - upper:	Not available
Extinguishing media:	All standard firefighting procedures
Special firefighting procedures:	Do not breathe combustion gases. Wear protective equipment
Unusual fire or explosion hazards:	None known
Hazardous combustion products:	Carbon Dioxide (CO ₂), Carbon monoxide (CO), Fragmented Hydrocarbons

SECTION 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow to enter drains, surface or ground water.
Clean-up methods:	Wipe up spills to prevent footing hazard. Scrape up spilled material and place in a closed container for disposal. Wear appropriate protective equipment and clothing during clean-up.

SECTION 7. HANDLING AND STORAGE

Handling:	Use only in well ventilated area. Avoid contact with skin, eyes and clothing. Do not breathe vapors, mists or aerosols. Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved. All items should be warmed to at least 32°F (0°C) prior to installation. Do not eat, do not drink and do not smoke during use. Keep containers tightly closed when not used. After use, wash hands with soap and water. Wash contaminated clothing before reuse.
Storage:	Store between 4°C (40°F) and below 32°C (90°F). Keep from freezing. Store in accordance with local regulations. Store in original container protected from direct sunlight, in a cool, dry area. Keep containers closed when not in use. Do not store in unlabelled containers.

For information on product shelf life, please review labels on containers or check the Technical Data Sheet.

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Components					
Limestone:	STEL TWA (8h)	Total Dust Total Dust		20 mg/m ³ 10 mg/m ³	BC ACGIH, BC, ON, RSST
Sulphuric acid, compound with graphite	TWA (8h)	Respirable Dust Total Dust		3 mg/m ³ 10 mg/m ³	ACGIH ACGIH
Propylene glycol	TWA (8h)	Mist	50 ppm	10 mg/m ³ 155 mg/m ³	ON, US AIHA ON
Silica - Amorphous, gel	TWA (8h)	Respirable Dust Total Dust		6 mg/m ³ 10 mg/m ³	NIOSH, RSST ACGIH, ON
Texanol	TWA (8h)	Respirable Dust Total Dust		3 mg/m ³ 10 mg/m ³	ACGIH ACGIH
Titanium dioxide	TWA (8h)	Total Dust		10 mg/m ³	ACGIH, BC, ON, RSST
Vinyl acetate	Ceiling STEL TWA (8h)		4 ppm 15 ppm 15 ppm 10 ppm	15 mg/m ³ 53 mg/m ³	NIOSH ACGIH, BC, ON RSST (C3) ACGIH, BC, ON

Engineering controls:

Provide sufficient mechanical (general and/or local exhaust) to keep the airborne concentrations of dust below their respective occupational exposure limits.

Eye:

Wear chemical splash goggles.

Hands:

Wear nitrile or neoprene gloves. Disposable nitrile gloves can also be used, but discard after single use. Gloves must only be worn on clean hands. Wash gloves with water before removing them. After using gloves, hands should be washed and dried thoroughly. Before using, user should confirm impermeability. Discard gloves that show tears, pinholes, or signs of wear.

Skin:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code. Wear synthetic apron to prevent contact with skin.

Respiratory protection:

A respirator is not required in a well-ventilated area. Respiratory protection equipment (PPE) must be selected, fitted, maintained and inspected in accordance with regulations and CSA Standard Z 94.4 and approved by NIOSH / MSHA. In case of insufficient ventilation or in confined or enclosed space and for an assigned protection factor (APF) up to 10 times the exposure limit: wear a half mask respirator with appropriate cartridges fitted with P100 filters. For an APF until maximum 100 times of exposure limit, wear a full face respirator mask with appropriate cartridges and P100 filters.

Feet:

Wear safety shoes.





SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Blue
Odor:	Mild latex odor
Odor threshold:	Not available
pH:	7.5 - 8.5
Viscosity:	17500 to 37000 cSt @ 25°C (77°F)
Vapor pressure:	Not available
Boiling point/range:	> 100°C (> 212°F)
Melting point/range:	0°C (32°F)
Specific gravity:	1.27 - 1.37 kg/L at 25°C (77°F) (water = 1)
Vapor density:	0.6 - 0.7, (Air = 1)
Flash point:	Not applicable
Flammable limits:	Not applicable
Percent Volatile:	25 to 30%
Auto-ignition temperature:	Not available
Evaporation rate:	< Acétate de butyle
Solubility in water:	Soluble in water.
Partition coefficient (n-octanol/water):	Not available
VOC content:	81.3 g/l (calculated)
Sensibility to electrostatic charges:	No
Sensibility aux sparks and/or friction:	No
Decomposition temperature:	Not applicable
Molecular mass:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Possibility of hazardous reactions (including polymerizations)	Hazardous polymerization will not occur under recommended storage.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials:	Strong oxidizing agents (such as nitric acid, perchloric acid, peroxides, chlorates and perchlorates), strong acids, strong bases.
Reactivity:	Not applicable
Conditions to avoid:	Do not freeze. Avoid contact with incompatible materials. Avoid contamination with another chemical product.

SECTION 11. TOXICOLOGICAL INFORMATION

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Limestone	Ingestion	6480 mg/kg	Rat	LD50
Sulphuric acid, compound with graphite	Ingestion	>2000 mg/kg	Rat	LD50
	Skin	>2000 mg/kg	Rat	LD50
	Ingestion	18000 mg/kg	Rat	LD50
Propylene glycol	Inhalation	>20 mg/l/4h	Rat	LD50
	Skin	20800 mg/kg	Rabbit	LD50
	Ingestion	3160 mg/kg	Rat	LD50
Silica - Amorphous, gel	Inhalation	>2.08 mg/l/4h	Rat	LD50
	Skin	>2000 mg/kg	Rabbit	LD50
	Ingestion	3200 mg/kg	Rat	LD50
Texanol	Inhalation	>3.5 mg/l/4h	Rat	LD50
	Skin	>20000 mg/kg	Rat	LD50
	Ingestion	2920 mg/kg	Rat	LD50
Vinyl acetate	Inhalation	11.4 mg/l/4h	Rat	LD50
	Skin	4000 ppm/4h	Rat	LD50
	Skin	2335 mg/kg	Rabbit	LD50
Chlorothalonil	Ingestion	>10000 mg/kg	Rat	LC50
	Inhalation	0.1 mg/l/4h	Rat	LD50
	Skin	>2500 mg/kg	Rat	LD50
Titanium dioxide	Ingestion	>10000 mg/kg	Rat	LD50
	Inhalation	>6.82 mg/l/4h	Rat	LC50
	Skin	>10000 mg/kg	Rabbit	LD50

Relevant Routes of Exposure: Inhalation, Skin Contact, Eyes, Ingestion

Potential Health Effects / Symptoms

- Eye contact:** May cause redness and slight irritation of the eyes. Eye Irritation/Corrosion, Rabbit: tests performed with each ingredient of this mixture gave not irritating to slightly irritating results.
- Skin contact:** May cause redness and slight irritation of the skin. Skin Irritation/Corrosion, Rabbit : tests performed with each ingredient of this mixture gave not irritating to slightly irritating results.
- Inhalation:** Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions. Overexposure may cause nose, throat and respiratory tract irritation.
- Ingestion:** Swallowing will causes digestive tract disturbances resulting in nausea, vomiting, cramps and diarrhea.
- Respiratory or skin sensitization:** Chlorothalonil (CAS No. 1897-45-6) is a skin sensitizer (TOXNET). May cause an allergic reaction of the skin. This product is not a respiratory sensitizer.
- Ingestion:** Not expected to be harmful by ingestion. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea and diarrhea.

IRAC/NTP Classification:

Common name	IARC	NTP
Vinyl acetate	2B	-
Chlorothalonil	2B	-
Titanium dioxide	2B	-

IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic.
 NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.

Carcinogenicity: Contains ingredients possibly carcinogenic to humans. The risk of cancer depends on duration and level of exposure. Titanium dioxide in dust form can cause cancer based on animal data. Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint and caulk.

Mutagenicity: Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effect.

Reproductive toxicity: Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause effects on reproduction.

Specific target organ toxicity - single exposure No target organ is listed.

Specific target organ toxicity - repeated exposure No target organ is listed.

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Interactive effects: No information available for this product.

Other information: The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. The acute toxicity estimate (ATE) by inhalation (dust/mist) of the mixture was calculated to be greater than 5 mg/L/4h. These values are not classified according to WHMIS 2015 and OSHA HCS 2012.

SECTION 12. ECOLOGICAL INFORMATION

Ecological toxicity: Fish - Oncorhynchus mykiss - Rainbow trout LC50 0.012 mg/L; 96 h (Chlorothalonil)
Aquatic Invertebrate - Daphnia, Magna, (static) LD50 0.06 mg/L: 48 h (Chlorothalonil)

Persistence: May persist in the environment.

Degradability: No information available for this product. The term biodegradability, as such, is not applicable to inorganic compounds.

Bioaccumulative potential: No information available for this product. Chlorothalonil has a Bioconcentration Factor (BCF) of 125 to 264 indicating that its potential to bioaccumulate is low (TOXNET).

Mobility in soil: No information available for this product. Chlorothalonil has Koc values of 900-14000 indicate that it is expected to adsorb to suspended solids and sediment.

Other adverse effects: This chemical does not deplete the ozone layer.

SECTION 13. DISPOSAL CONSIDERATIONS

Container:



Important! Prevent waste generation. Use in full. DO NOT throw residual to sewer, streams, sewers or drinking water supply. Smaller quantities can be disposed like normal waste. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	Proper Shipping Name	Classes	PG*	Label	Additional Information
DOT Classification	Not regulated	-	-	-	-	-
TDG Classification	Not regulated	-	-	-	-	-
Mexico Classification	Not regulated	-	-	-	-	-
ADR / RID Class	Not regulated	-	-	-	-	-
IMDG Class	Not regulated	-	-	-	-	-
IATA-DGR Class	Not regulated	-	-	-	-	-

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

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Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

SECTION 15. REGULATORY INFORMATION

United State of America

Common Name	CAS	TSCA	CERCLA	EPCRA 313	EPCRA 302/304	CAA 112(b) HON	CAA 112(b) HAP	CAA 112(r)	CWA 311	CWA Priority
Limestone	1317-65-3	X								
Sulphuric acid, compound with graphite	Proprietary 18	X								
Graphite expansible	12777-87-6	X								
Silica - Amorphous, gel	112926-00-08									
Propylene glycol	57-55-6	X				X				
Texanol	25265-77-4	X								
Titanium dioxide	13463-67-7	X		X						
Vinyl acetate	108-05-4	X	X	X	X	X	X	X	X	
Chlorothaloni	1897-45-6	X								

- TSCA: Toxic Substance Control Act
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances
- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals
- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances
- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant
- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants
- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention
- CWA 311: Clean Water Act - List of Hazardous Substances
- CWA Priority: Clean Water Act - Priority Pollutant list

Canada

Common Name	CAS	CEPA	DSL	NDSL	NPRI
Limestone	1317-65-3			X	
Sulphuric acid, compound with graphite	Proprietary 18		X		
Graphite expansible	12777-87-6			X	
Silica - Amorphous, gel	112926-00-08		X		
Propylene glycol	57-55-6		X		
Texanol	25265-77-4		X		
Titanium dioxide	13463-67-7		X		
Vinyl acetate	108-05-4	X	X		X
Chlorothaloni	1897-45-6		X		

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act
- DSL: Domestic Substances List Inventory
- NDSL: Non-Domestic Substances List Inventory
- NPRI: National Pollutant Release Inventory Substances

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Safety Data Sheet (SDS)
 OSHA Haz Com Standard 29 CFR 1910.1200.

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California Proposition 65

Common Name	CAS	Cancer	Reproductive and Developmental Toxicity
Titanium dioxide	13463-67-7	X	
Vinyl acetate	108-05-4	X	
Chlorothaloni	1897-45-6	X	

SECTION 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections:

Prepared by: Chemical Laboratory

Issue date: June 1, 2015

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