

# CRACK-PAC® FLEX-H<sub>2</sub>O™ Polyurethane Crack Sealer

## SAFETY DATA SHEET

### 1. Identification

#### Product Identification

**Product Identifier:** CRACK-PAC® FLEX-H<sub>2</sub>O™  
**Recommended Use:** CRACK-PAC FLEX-H<sub>2</sub>O is a polyurethane sealant adhesive.  
**Use Restrictions:** To ensure proper installation, use according to package directions. Complete application instructions can be found in Simpson Strong-Tie catalogs or online at [strongtie.com](http://strongtie.com).

#### Company Identification

**Company:** Simpson Strong-Tie Company Inc.  
**Address:** 5956 W. Las Positas Blvd.  
Pleasanton, CA 94588, USA  
**Phone:** 1-800-999-5099  
**Website:** [www.strongtie.com](http://www.strongtie.com)  
**Emergency:** 1-800-535-5053 (US/Canada)  
1-352-323-3500 (International)

For most current SDS, please visit our website at [www.strongtie.com/sds](http://www.strongtie.com/sds)

### 2. Hazard Identification

#### General Information

CRACK-PAC® FLEX-H<sub>2</sub>O Polyurethane Crack Sealer is a two-part injection resin for sealing cracks 1/32" to 1/4" wide in concrete or masonry. It is designed to seal cracks where water is leaking or seeping through. The two parts of this product have been individually assessed according to the Globally Harmonized System (GHS). The mixed product can be assumed to carry the hazards of each component until the product has fully hardened. The final cured product will be uniformly green in color and can be considered nonhazardous. This Safety Data Sheet covers the hazards and responses for the safe use of this product.

#### Resin (Clear Side) GHS Classification

##### Classification According to HazCom2012 (GHS)

<b>Physical Hazards:</b>	Not Classified.		
<b>Health Hazards</b>	Acute Toxicity, Inhalation	Category 4	H332: Harmful if inhaled
	Skin Corrosion/Irritation	Category 2	H315: Causes skin irritation
	Serious Eye Damage/Irritation	Category 2	H319: Causes serious eye irritation
	Sensitization, Skin	Category 1	H317: May cause an allergic skin reaction
	Sensitization, Respiratory	Category 1	H334: May cause allergy or asthma symptoms
	STOT, Single Exposure	Category 3	H335: May cause respiratory irritation
STOT, Repeated Exposure	Category 2	H373: May cause damage to organs through prolonged or repeated exposure	

**Environmental Hazards:** Not Classified.

**Main Symptoms:** Irritation of eyes and skin. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision. May cause rash/allergic reaction to the skin. May cause shortness of breath, discomfort in chest, or coughing. Long term exposure may cause chronic effects.

#### GHS Label Elements



**Contains:** MDI Prepolymer, Propanoic Acid  
**Signal Word:** **DANGER!**  
**Hazard Statements:**  
H332: Harmful if inhaled.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H317: May cause an allergic skin reaction.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335: May cause respiratory irritation.

# CRACK-PAC® FLEX-H<sub>2</sub>O™ Polyurethane Crack Sealer

## SAFETY DATA SHEET



<b>Precautionary Statements:</b>	<b>Prevention:</b>	H373:	May cause damage to organs (lungs) through prolonged or repeated exposure.
		P102:	Keep out of reach of children.
		P103:	Read label before use.
		P202:	Do not handle until all safety precautions have been read and understood.
		P260:	Do not breathe mist or vapor.
	<b>Response:</b>	P264:	Wash thoroughly after handling.
		P270:	Do not eat, drink, or smoke when using this product.
		P271:	Use only outdoors or in a well-ventilated area.
		P272:	Contaminated work clothing should not be allowed out of the workplace.
		P280:	Wear protective gloves/protective clothing/eye protection/face protection.
P284:		In case of inadequate ventilation wear respiratory protection.	
P302+P352:		IF ON SKIN: Wash with plenty of soap and water.	
P333+P313:		If skin irritation or rash occurs: Get medical advice/attention.	
P362+P364:		Take off contaminated clothing and wash it before reuse.	
P304+P340:		IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
<b>Storage:</b>	P342+P313:	If experiencing respiratory symptoms: Get medical advice/attention.	
	P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	P337+P313:	If eye irritation persists: Get medical advice/attention.	
	P308+P313:	If exposed or concerned: Get medical advice/attention.	
	P403+P233:	Store in a well-ventilated place. Keep container tightly closed.	
<b>Disposal:</b>	P405:	Store locked up.	
	P501:	Dispose of contents/container in accordance with local/regional regulations.	

**Supplemental Label Information:** None known.

### Accelerant (Green Side) GHS Classification

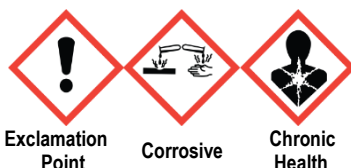
#### Classification according to HazCom2012 (GHS)

<b>Physical Hazards:</b>	Flammable Liquid	Category 4	H227: Combustible liquid
<b>Health Hazards</b>	Skin Corrosion/Irritation	Category 1B	H314: Causes severe skin burns
	Serious Eye Damage/Irritation	Category 1	H318: Causes serious eye damage
	Sensitization, Skin	Category 1	H317: May cause an allergic skin reaction
	Germ Cell Mutagenicity	Category 2	H341: Suspected of causing genetic defects
	Reproductive Toxicity	Category 1B	H360: May damage fertility or the unborn child
	STOT, Single Exposure	Category 3	H335: May cause respiratory irritation
STOT, Repeated Exposure	Category 2	H373: May cause damage to organs through prolonged or repeated exposure	

**Environmental Hazards:** Not Classified.

**Main Symptoms:** Damage to the eyes and skin. Symptoms include burns, redness, itching, tearing, swelling, and blurred vision. May cause severe irritation or burns to the gastrointestinal tract and respiratory system. May cause rash/allergic reaction to the skin. May cause shortness of breath, discomfort in chest, or coughing. Long term exposure may cause chronic effects.

#### GHS Label Elements



<b>Contains:</b>	Tertiary Amines, Tin Mercaptide
<b>Signal Word:</b>	<b>DANGER!</b>
<b>Hazard Statements:</b>	H227: Combustible liquid.
	H314: Causes severe skin burns and eye damage.
	H318: Causes serious eye damage.

**CRACK-PAC® FLEX-H<sub>2</sub>O™ Polyurethane Crack Sealer**  
SAFETY DATA SHEET



	H317:	May cause an allergic skin reaction.
	H341:	Suspected of causing genetic defects.
	H360:	May damage fertility or the unborn child.
	H335:	May cause respiratory irritation.
	H373:	May cause damage to organs through prolonged or repeated exposure.
<b>Precautionary Statements:</b>		
<b>Prevention:</b>	P102:	Keep out of reach of children.
	P103:	Read label before use.
	P202:	Do not handle until all safety precautions have been read and understood.
	P210:	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
	P260:	Do not breathe mist or vapor.
	P264:	Wash hands thoroughly after handling.
	P270:	Do not eat, drink, or smoke when using this product.
	P271:	Use only outdoors or in a well-ventilated area.
	P272:	Contaminated work clothing must not be allowed out of the workplace.
	P280:	Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response:</b>	P301+P330+P331:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P310:	Immediately call a POISON CENTER/doctor.
	P303+P361+P353:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P333+P313:	If skin irritation or rash occurs: Get medical advice/attention.
	P363:	Wash contaminated clothing before reuse.
	P304+P340:	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P338+P313:	If eye irritation persists: Get medical advice/attention.
	P370+P378:	In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
<b>Storage:</b>	P403:	Store in a well-ventilated place.
	P405:	Store locked up.
	P411:	Store between 45-90°F (7-32°C).
<b>Disposal:</b>	P501:	Dispose of contents/container in accordance with local/regional regulations.

**Supplemental Label Information:** None known.

**Hazards Not Otherwise Classified (HNOC)**

None known.

**3. Composition Information**

**General Information**

This product is a mixture. Hazardous ingredients for each component are listed below. May include other nonhazardous ingredients. May include other trace ingredients, see Section 15.

**List of abbreviations and symbols:**

Classification: Global Harmonized System Classifications

The full text for H-phrases is displayed in section 16. All concentrations are in percent by weight unless otherwise noted.

**Resin (Clear Side)**

Chemical Name	Weight %	CAS Number	EC Number
MDI Prepolymers	40-65	96328-90-4, 59675-67-1	692-819-0, 686-507-3
<b>Classifications:</b> Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H317, Resp. Sens. 1: H334, Carc. 2: H351, STOT RE 2: H373			
Propanoic Acid, ester	10-25	6846-50-0	229-934-9
<b>Classifications:</b> None.			
Diphenylmethane Diisocyanate, mixed Isomers	< 15	26447-40-5	247-714-0
<b>Classifications:</b> Acute Tox. 4: H332, Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H317, Resp. Sens. 1: H334, Carc. 2: H351, STOT SE 3: H335, STOT RE 2: H373			

# CRACK-PAC® FLEX-H<sub>2</sub>O™ Polyurethane Crack Sealer

## SAFETY DATA SHEET

Methylene Biphenyl Isocyanate <b>Classifications:</b> Acute Tox. 4: H332, Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H317, Resp. Sens. 1: H334, Carc. 2: H351, STOT SE 3: H335, STOT RE 2: H373	< 15	101-68-8	202-966-0
Polymeric Diphenylmethane Diisocyanate <b>Classifications:</b> Acute Tox. 4: H332, Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H317, Resp. Sens. 1: H334, STOT SE 3: H335, STOT RE 2: H373	< 10	9016-87-9	618-498-9

### Accelerant (Green Side)

Chemical Name	Weight %	CAS Number	EC Number
Tertiary Amine <b>Classifications:</b> N/A	20-40	N/A	N/A
Tin Mercaptide <b>Classifications:</b> N/A	< 10	N/A	N/A

## 4. First-Aid Measures

### General Information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

### Routes of Exposure

- Eye Contact:** Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. Remove contact lenses if present and easy to do. If redness, burning, blurred vision, or swelling persists, **consult a physician immediately.**
- Skin Contact:** Remove contaminated clothing and product. Immediately wash affected area with soap and water. If skin irritation persists **consult a physician.**
- Ingestion:** Rinse mouth immediately. Give large amounts of milk or water, if person is conscious. Do NOT induce vomiting. **Consult a physician immediately.**
- Inhalation:** Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, **consult a physician.**

### Most Important Symptoms

Damage to the eyes and skin. Symptoms include burns, redness, itching, tearing, swelling, and blurred vision. Permanent eye damage, including blindness, may result. May cause severe irritation or burns to the gastrointestinal tract and respiratory system. May cause rash/allergic reaction to the skin. May cause shortness of breath, discomfort in chest, or coughing.

## 5. Fire-Fighting Measures

- Suitable Extinguishing Media:** Extinguish with foam, carbon dioxide, dry powder, or water fog.
- Additional Information:** Do not use water jet as an extinguisher as this will spread the fire.
- Hazards during Fire-Fighting:** Closed containers may rupture violently if heated. Product reacts slowly with water to produce carbon dioxide which may rupture closed containers. This reaction accelerates at higher temperatures. Irritating and toxic gases/fumes may be released during a fire. Water run-off can cause environmental damage.
- Fire-Fighting Procedures:** Use standard fire-fighting procedures and consider the hazards of other involved materials. In case of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

## 6. Accidental Release Measures

### Personal Precautions

**Non-emergency personnel:** Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

**Emergency personnel:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protection.

# CRACK-PAC® FLEX-H<sub>2</sub>O™ Polyurethane Crack Sealer

## SAFETY DATA SHEET



### Clean-Up Methods

- Small spills (uncured):** Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal. Move to outside well-ventilated area. Treat with 10 parts decontamination solution to 1 part isocyanate. Mix well. Allow to stand uncovered for 48 hours before disposal. Clean surface thoroughly to remove residual contamination. If desired, approved solvents, such as ketones (MEK, acetone, etc.), lacquer thinner, or adhesive remover can be used. Do NOT use solvents to clean adhesives from skin. Take appropriate precautions when handling flammable solvents. Solvents may damage surfaces to which they are applied.
- Large spills (uncured):** Stop the flow of material, if this is without risk. Dike far ahead of spill to contain material. Use a non-combustible material like vermiculite, sand or earth to soak up the product. Place in leak-proof containers. Seal tightly for proper disposal. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Move to outside well-ventilated area. Treat with 10 parts decontamination solution to 1 part isocyanate. Mix well. Allow to stand uncovered for 48 hours before disposal. Clean spill area with decontamination solution and allow to stand for 15 minutes before removal. Test atmosphere for MDI. Following product recovery, flush area with water.
- Cured Material:** Chip or grind off surface. If you are grinding or cutting cured product, ensure good work practice and use of personal protective equipment as needed to control exposure to respirable dust.

### Environmental Precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and Storage

### Handling

Keep away from open flames, hot surfaces and sources of ignition. No smoking. Mechanical ventilation or local exhaust ventilation is required. Persons already sensitized to diisocyanates may develop allergic reactions when using this product. Work practice should minimize contact. Keep the workplace clean. Avoid any exposure. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

### Storage

Keep container tightly closed. Store in a cool, dry place. Store between 40-90°F (7-32°C). Closed containers may rupture violently if heated. Keep away from heat, sparks and open flame. Do not store in direct sunlight. Protect against physical damage. Protect from moisture. Do not reseal if contaminated. After container has been opened, blanket with nitrogen before resealing. Keep out of the reach of children.

## 8. Exposure Controls / Personal Protection

### Personal Protective Equipment

- General Protection:** Wear appropriate personal protective equipment.
- Eye Protection:** Wear chemical splash goggles or safety glasses with side shield.
- Hand Protection:** Use disposable gloves protecting against isocyanates along with cotton gloves closest to the skin. Nitrile rubber gloves are recommended.
- Skin and Body Protection:** Wear long sleeve shirts/long pants and other clothing as required to minimize contact.
- Respirator Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
- General Hygiene:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### Engineering Controls

Mix and prepare in a place with efficient exhaust ventilation. Mechanical ventilation or local exhaust ventilation is recommended. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and emergency shower.

**Exposure Limits**

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
Methylene Bisphenyl Isocyanate (101-68-8)	0.02 ppm (ceiling) 0.2 mg/m <sup>3</sup> (ceiling)	0.005 ppm (TWA) 0.051 mg/m <sup>3</sup> (TWA)	0.005 ppm (TWA) 0.02 ppm (ceiling)
Polymeric diphenylmethane diisocyanate (9016-87-9)	0.02 ppm (ceiling) 0.2 mg/m <sup>3</sup> (ceiling)	0.005 ppm (TWA) 0.051 mg/m <sup>3</sup> (TWA)	0.005 ppm (TWA) 0.02 ppm (ceiling)
Tin Mercaptide	0.1 mg/m <sup>3</sup> (skin)	0.1 mg/m <sup>3</sup> (skin)	---

**9. Physical and Chemical Properties**

Property	Resin	Accelerant
Physical State:	Liquid	Liquid
Color:	Clear/Light Yellow	Clear/Green
Odor:	Slightly musty	Amine
pH:	No data	No data
Flammability limit – lower %:	No data	No data
Flammability limit – upper %:	No data	No data
Vapor Pressure:	< 0.0001 mmHg at 25°C (77°F)	No data
Vapor Density:	Heavier than air	Heavier than air
Solubility:	Insoluble in water	Slightly soluble in water
Freezing/Melting Point:	No data	No data
Boiling Point:	No data	No data
Flash Point:	>200 °F (>93.3 °C) Closed Cup	>150 °F (>67 °C) Closed Cup
Evaporation Rate:	No data	No data
Decomposition Temperature:	No data	No data
Specific Gravity:	1.04-1.07 at 77°F (25°C)	0.90-0.93 at 77 °F (25°C)
VOC (after cure):	3 g/L	3 g/L
Kow:	No data	No data
Viscosity:	600-900 cps at 77°F (25°C)	20-40 cps at 77 °F (25°C)
Corrosiveness:	Non-corrosive	Corrosive

**10. Stability and Reactivity**

Reactivity:	Resin material reacts with water. Accelerant is stable and non-reactive under normal conditions.
Chemical Stability:	Stable under normal storage conditions.
Condition to Avoid:	Moisture. High heat and open flame.
Substances to Avoid:	<b>Resin:</b> Acids, bases, alcohols, amines, and water. The reaction with water is very slow under 122°F (50°C) but is accelerated at higher temperatures. <b>Accelerant:</b> mineral acid, organic acids, reactive materials, sodium hypochlorite, calcium hypochlorite and peroxides.
Hazardous Reactions:	<b>Resin:</b> Polymerization may occur at elevated temperatures in the presence of alkalis, tertiary amines and metal compounds. <b>Accelerant:</b> Hazardous polymerization will not occur.
Decomposition Products:	Carbon dioxide, carbon monoxide, oxides of nitrogen, tin oxide and other organic compounds.

**11. Toxicological Information**

**Likely Routes of Exposure**

Ingestion:	Harmful if swallowed. Corrosive material; causes severe irritation or burns to the gastrointestinal tract or respiratory tract if swallowed.
Inhalation:	Harmful if inhaled. May cause allergy or asthma symptoms. May cause respiratory irritation.
Skin contact:	Causes severe skin burns. May cause an allergic skin reaction.
Eye contact:	Causes serious eye damage.
Symptoms:	Burns, redness, itching, tearing, swelling, and blurred vision. May cause severe irritation or burns to the gastrointestinal tract and respiratory system. Rash/dermatitis. Shortness of breath, discomfort in chest, or coughing.

**Information on Toxicological Effects**

**Acute Effects**

Toxicity:	Harmful if swallowed. Harmful if inhaled.
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# CRACK-PAC® FLEX-H<sub>2</sub>O™ Polyurethane Crack Sealer

## SAFETY DATA SHEET

Component	Estimate
CRACK-PAC® FLEX-H <sub>2</sub> O™ Resin Estimate	
<b>Acute, Oral</b> , LD50	4500 mg/kg
<b>Acute, Dermal</b> , LD50	17000 mg/kg
<b>Acute, Inhalation</b> , LC50	250 mg/l, 4 hours
CRACK-PAC® FLEX-H <sub>2</sub> O™ Accelerator Estimate	
<b>Acute, Oral</b> , LD50	> 1600 mg/kg
<b>Acute, Dermal</b> , LD50	10000 mg/kg
<b>Acute, Inhalation</b> , LC50	> 16000 ppm, 8 hours

**Skin corrosion/irritation:** Causes severe skin burns.  
**Eye damage/eye irritation:** Causes serious eye damage.  
**Respiratory sensitization:** May cause allergy or asthma symptoms.  
**Skin sensitization:** May cause an allergic skin reaction.  
**Aspiration hazard:** No data available.  
**Specific target organ toxicity  
 Single exposure:** May cause respiratory irritation.

### Chronic Effects

**Germ cell mutagenicity:** Suspected of causing genetic defects.  
**Carcinogenicity:** No data available.  
**Reproductive toxicity:** May damage fertility or the unborn child.  
**Specific target organ toxicity  
 Repeated exposure:** May cause damage to organs through prolonged or repeated exposure.

### Further Information

Toxicological, ecotoxicological, physical, and chemical properties may not have been fully investigated. Hazard data above is estimated based on best available information. Some workers with certain pre-existing medical conditions such as: asthma, allergies, or impaired pulmonary and/or liver functions, or who may be particularly susceptible to this material, may be affected by exposure to this material.

## 12. Ecological Information

### General Information

Information given is based on data on the components and the ecotoxicology of similar products. The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Supporting Data

Component	Test Result
CRACK-PAC® FLEX-H <sub>2</sub> O™ Resin Estimate	
<b>Aquatic, Fish</b> , LC50	> 350 mg/l, 96 hours
<b>Aquatic, Algae</b> , EC50	< 50 mg/l, 72 hours
<b>Aquatic, Crustacea</b> , EC50	400 mg/l, 24 hours

**Persistence and degradability:** No data available.  
**Bioaccumulative potential:** No data available for the product.  
**Mobility in soil:** No data available.

### Further Information

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

## 13. Disposal Consideration

**Waste Disposal of Substance:** Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.  
**Container Disposal:** Empty containers or liners may retain some product residues; follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.  
**Disposal of Cured Product:** Chip or grind off surface. Solid material does not need special disposal consideration.

**CRACK-PAC® FLEX-H<sub>2</sub>O™ Polyurethane Crack Sealer**  
SAFETY DATA SHEET



**14. Transportation Information**

This information does not cover all specific regulatory or operational requirements of this product. The classifications for transportation may vary by container volume or different regional or national regulations.

	Resin (Clear Side)	Accelerant (Green Side)
UN number:	---	UN2735
UN proper shipping name:	Not regulated for shipping.	AMINES, LIQUID, CORROSIVE, N.O.S. (Hexadecyldimethylamine), 8, III
Precautions:		Corrosive
Required Labels:		8
ERG Code (IATA):		8L
EmS (IMDG):		F-A, S-B
Special Precautions for Users:	Read safety instructions, SDS and emergency procedures before handling.	

Based on packaging size, Limited Quantity exemptions may apply. Please consult the 49 CFR HMR, IATA DGR, and IMDG Code to ensure that shipments comply with these regulations.

**15. Regulatory Information**

**United States**

**Federal Regulations:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4):**  
Methylene Bisphenyl Isocyanate (CAS 101-68-8) LISTED

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

Hazard Categories:	Immediate	Delayed	Fire	Pressure	Reactivity
Resin	Yes	Yes	No	No	No
Accelerant	Yes	Yes	No	No	No

**SARA 302 Extremely hazardous substance:** No

**SARA 311/312 Hazardous chemical:** Yes

**SARA 313 (TRI reporting):**

Component	CAS Number	% In Blend (approx.)
Methylene Bisphenyl Isocyanate	101-68-8	< 15
Polymeric Diphenylmethane Diisocyanate	9016-87-9	< 10

**California Proposition 65:**

**WARNING:** This product can expose you to chemicals which are known to the State of California to cause cancer, reproductive harm, or other birth defects. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Canada**

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

**International**

The product is classified in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

This product is not subject to or not applicable for any of the following International Regulations; **Stockholm Convention, Rotterdam Convention, Kyoto Protocol, Montreal Protocol, Basel Convention.**



# CRACK-PAC® FLEX-H<sub>2</sub>O™ Polyurethane Crack Sealer

## SAFETY DATA SHEET



### International Inventories

<b>Canada</b>	All components of this product are included on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
<b>United States &amp; Puerto Rico</b>	All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory or are not required to be listed.

### 16. Other Information

**Date Prepared or Revised:** November 2019  
**Supersedes:** September 2016  
**Contact Simpson Strong-Tie Environmental Health and Safety at** [EHS@strongtie.com](mailto:EHS@strongtie.com)

### Abbreviations

<b>ACGIH:</b>	American Conference of Governmental Industrial Hygienists
<b>CAS No.:</b>	Chemical Abstract Service Registry Number
<b>CERCLA:</b>	Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)
<b>HPR:</b>	Hazardous Product Regulations (Canada)
<b>GHS:</b>	Globally Harmonized System of Classification and Labeling of Chemicals
<b>HMIS:</b>	Hazardous Materials Identification System
<b>IARC:</b>	International Agency for Research on Cancer
<b>IATA:</b>	International Air Transport Association
<b>IMDG:</b>	International Maritime Dangerous Goods code
<b>NIOSH:</b>	National Institute of Occupational Safety and Health (U.S.)
<b>NFPA:</b>	National Fire Protection Association (US)
<b>NTP:</b>	National Toxicology Program (US)
<b>PEL:</b>	Permissible Exposure Limit
<b>SARA:</b>	Superfund Amendments and Reauthorization Act (U.S. EPA)
<b>STEL:</b>	Short Term Exposure Limit (15 minute Time Weighted Average)
<b>STOT:</b>	Specific Target Organ Toxicity (GHS Classification)
<b>TLV:</b>	Threshold Limit Value
<b>TSCA:</b>	Toxic Substances Control Act (U.S.)
<b>TWA:</b>	Time Weighted Average (exposure for 8-hour workday)
<b>VOC:</b>	Volatile Organic Compounds
<b>WHMIS:</b>	Canadian Workplace Hazardous Materials Information System

### Full Text of H – Phrases Under Section 3

**H351:** Suspected of causing cancer.

### Disclaimer

This Safety Data Sheet (SDS) is prepared by Simpson Strong-Tie Co. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this SDS. This SDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

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### Internal

#### FOR INTERNAL USE ONLY

CPFH09 Resin:	CPFH09 Accelerant:
XCOM3B – 95% Cartridge	XCOM3A – 5% Cartridge
	XCORR – 5% Cartridge