



# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision Date: Date of issue: 06/29/2017

Version: 1.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** Fill-Lock SL (Part A)

**Product Code:** 2310 - 22

#### Intended Use of the Product

Concrete Repair. For professional use only.

#### Name, Address, and Telephone of the Responsible Party

##### **Manufacturer**

The Garland Company, Inc.  
3800 East 91st Street  
Cleveland, Ohio 44105-2197  
T-800-762-8225  
F-216-641-0633  
[www.garlandco.com](http://www.garlandco.com)

##### **Supplier**

The Garland Company, Inc.  
3800 East 91st Street  
Cleveland, Ohio 44105-2197  
T-800-762-8225  
F-216-641-0633  
[www.garlandco.com](http://www.garlandco.com)

#### Emergency Telephone Number

**Emergency number** : 1-800-762-8225 24 hours

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US)**

Skin Irrit. 2 H315  
Skin Sens. 1 H317  
Eye Irrit. 2A H319  
Resp. Sens. 1 H334  
STOT SE 3 H335  
Carc. 2 H351  
STOT RE 2 H373  
Aqua. Chronic 3 H412

#### Label Elements

##### **GHS-US Labeling**

##### **Hazard Pictograms (GHS-US)**



##### **Signal Word (GHS-US)**

: Danger

##### **Hazard Statements (GHS-US)**

: H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335 - May cause respiratory irritation  
H351 - Suspected of causing cancer  
H373 - May cause damage to organs through prolonged or repeated exposure.  
(respiratory system)  
H412 - Harmful to aquatic life with long lasting effects

##### **Precautionary Statements (GHS-US)**

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe vapor.  
P261 - Avoid breathing mist, spray, vapors  
P264 - Wash hands, forearms, and exposed areas thoroughly after handling

# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P271 - Use only outdoors or in a well-ventilated area  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective gloves  
P281 - Use personal protective equipment as required.  
P285 - In case of inadequate ventilation wear respiratory protection.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P304 + P341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.  
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position 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  
P308 + P313 - IF exposed or concerned: Get medical attention.  
P312 - Call a POISON CENTER/doctor/physician if you feel unwell  
P314 - Get medical advice/attention if you feel unwell.  
P321 - Specific treatment (see Section 4)  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P362 - Take off contaminated clothing and wash before reuse  
P363 - Wash contaminated clothing before reuse.  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up.  
P501 - Dispose of contents/container according to local, regional, national, and international regulations

### Other Hazards

**Other Hazards Not Contributing to the Classification:** Not available

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product identifier	% (w/w)	Classification (GHS-US)
Polymeric MDI	(CAS No) 9016-87-9	30-50	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
2,2,4-trimethyl-1,3-pentanediol diisobutyrate	(CAS No) 6846-50-0	20-40	
4,4'-Diphenylmethane Diisocyanate	(CAS No) 101-68-8	10-20	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Skin Contact:** Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse

**Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

**Ingestion:** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Inhalation :** May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Ingestion :** No known significant effects or critical hazards.

**Skin contact :** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact :** Causes serious eye irritation.

#### Over-exposure signs/symptoms

**Eye contact :** Adverse symptoms may include the following: pain or irritation, watering, redness

**Inhalation:** Adverse symptoms may include the following: respiratory tract irritation, coughing, wheezing and breathing difficulties, asthma

**Skin contact:** Adverse symptoms may include the following: irritation, redness

**Ingestion:** No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician:** In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments:** No specific treatment.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing media

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray or foam.

**Unsuitable extinguishing media:** None known

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Closed container may forcibly rupture under extreme heat or when contents are contaminated with water (CO<sub>2</sub> formed). Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volumes of water applied from a safe distance, since reaction between water and hot diisocyanate can be vigorous.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures :

# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders:** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

**Spill:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### SECTION 7: HANDLING AND STORAGE

**Handling:** Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage:** Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### United States

#### Occupational exposure limits

Component	Exposure limits
-Isocyanic acid, polymethylenepolyphenylene ester	-NONE
-1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate	-NONE
-4,4'-Methylenediphenyl Diisocyanate	-ACGIH TLV (United States, 3/2016). TWA: 0.005 ppm 8 hours. NIOSH REL (United States, 10/2013). TWA: 0.05 mg/m <sup>3</sup> 10 hours. TWA: 0.005 ppm 10 hours. CEIL: 0.2 mg/m <sup>3</sup> 10 minutes. CEIL: 0.02 ppm 10 minutes. OSHA PEL (United States, 6/2016). CEIL: 0.02 ppm CEIL: 0.2 mg/m <sup>3</sup>

#### Canada

#### Occupational exposure limits

Component	Exposure limits
-Isocyanic acid, polymethylenepolyphenylene ester	-CA Alberta Provincial (Canada, 4/2009).

# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<p>- 4,4'-Methylenediphenyl Diisocyanate</p>	<p>8 hrs OEL: 0.07 mg/m<sup>3</sup> 8 hours. 8 hrs OEL: 0.005 ppm 8 hours. CA British Columbia Provincial (Canada, 7/2016). TWA: 0.005 ppm 8 hours. C: 0.01 ppm CA Ontario Provincial (Canada, 7/2015). C: 0.02 ppm TWA: 0.005 ppm 8 hours. CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 0.005 ppm 8 hours. 8 hrs OEL: 0.05 mg/m<sup>3</sup> 8 hours. CA British Columbia Provincial (Canada, 7/2016). Absorbed through skin. Skin sensitizer. TWA: 0.005 ppm 8 hours. C: 0.01 ppm CA Quebec Provincial (Canada, 1/2014). Skin sensitizer. TWA<sub>EV</sub>: 0.005 ppm 8 hours. TWA<sub>EV</sub>: 0.051 mg/m<sup>3</sup> 8 hours. CA Ontario Provincial (Canada, 7/2015). TWA: 0.005 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 0.015 ppm 15 minutes. TWA: 0.005 ppm 8 hours.</p>
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**Engineering Measures:** Use local and general exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it.

### Personal

**Appropriate engineering controls:** Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### Individual protection measures

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Respiratory protection:** Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

Physical State	: Liquid (Clear)
Appearance	: Dark brown
Odor	: Slightly musty
Melting Point	: <0°C (<32°F)
Boiling Point	: 207.78°C (406°F)
Auto-ignition Temperature	: < 204 (400°F)
Vapor Pressure	: <0.000013 kPa (<0.0001 mm Hg) @ 77°F
Solubility	: Insoluble
Relative Density	: 1.24 @ 77°F
V.O.C. Content	: See section 9 of part B
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** No specific test data related to reactivity available for this product or its ingredients.

**Chemical Stability:** Stable at standard temperature and pressure.

**Possibility of Hazardous Reactions:** Contact with moisture, other materials that react with isocyanates, or temperatures above 350 °F (177 °C), may cause polymerization. Polymerization will occur when reacted with Part B.

**Conditions to Avoid:** Water or temps above 350° F will cause polymerization avoid water, amines, strong bases, alcohols, copper alloys, aluminum.

**Incompatible Materials:** Reactive or incompatible with the following materials: oxidizing materials.

**Hazardous Decomposition Products:** By high heat and fire: carbon monoxide, oxides of nitrogen, hydrogen cyanide, carbon dioxide, dense black smoke, isocyanate, isocyanic acid, other undetermined compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Acute Toxicity

Product/ingredient name	Result	Species	Dose
-Isocyanic acid, polymethylenepolyphenylene ester	-LD50 Dermal	Rabbit	>9400 mg/kg
-4,4'-Methylenediphenyl Diisocyanate	- LD50 Oral	Rat	49 g/kg
	- LD50 Oral	Rat	9200 mg/kg

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Exposure
-Isocyanic acid, polymethylenepolyphenylene ester	- Eyes - Mild irritant	Rabbit	100 mg
- 1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate	- Skin - Mild irritant	Guinea pig	5 g
	- Skin - Mild irritant	Human	504 hours 1%
-4,4'-Methylenediphenyl Diisocyanate	- Eyes - Moderate irritant	Rabbit	100 mg

#### Carcinogenicity

# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Product/ingredient name	OSHA	IARC	NTP
-Isocyanic acid, polymethylenepolyphenylene ester		3	
-4,4'-Methylenediphenyl Diisocyanate		3	

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
-Isocyanic acid, polymethylenepolyphenylene ester	Category 3	Not applicable	Respiratory tract irritation
-4,4'-Methylenediphenyl Diisocyanate	Category 3	Not applicable	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
-Isocyanic acid, polymethylenepolyphenylene ester	Category 2	Inhalation	Respiratory system
-4,4'-Methylenediphenyl Diisocyanate	Category 2	Not determined	Not determined

### Potential chronic health effects

**General:** May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity:** Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

## SECTION 12: ECOLOGICAL INFORMATION

### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
-Isocyanic acid, polymethylenepolyphenylene ester	-	5340	high
-4,4'-Methylenediphenyl Diisocyanate	- 4.51	200	low

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: TRANSPORT INFORMATION

**14.1 In Accordance with DOT** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### Federal Regulations

**TSCA 8(a) PAIR:** 4,4'-Methylenediphenyl Diisocyanate

**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

**United States inventory (TSCA 8b):** All components are listed or exempted.

**TSCA 8(c) calls for record of SAR:** Isocyanic acid, polymethylenepolyphenylene ester; 4,4'-Methylenediphenyl Diisocyanate

**Clean Water Act (CWA) 307:** 4, 4'-Methylenediphenyl Diisocyanate

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs):** Listed

# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SARA 311/312

**Classification:** Immediate (acute) health hazard/Delayed (chronic) health hazard

### Composition/information on ingredients

Product/ingredient name	Immediate (acute) health hazard	Delayed (chronic) health hazard
-Isocyanic acid, polymethylenepolyphenylene ester	- Yes	- Yes
-4,4'-Methylenediphenyl Diisocyanate	- Yes	- Yes

### SARA 313

Product/ingredient name	Form R - Reporting requirements	Supplier notification	CAS number
-Isocyanic acid, polymethylenepolyphenylene ester	- Yes	- Yes	- 9016-87-9
-4,4'-Methylenediphenyl Diisocyanate	- Yes	- Yes	- 101-68-8

### State regulations

**New York:** The following components are listed: 4,4'-Methylenediphenyl Diisocyanate

**New Jersey:** The following components are listed: Isocyanic acid, polymethylenepolyphenylene ester; 4,4'-Methylenediphenyl Diisocyanate

**Pennsylvania:** The following components are listed: 4,4'-Methylenediphenyl Diisocyanate

**Massachusetts:** The following components are listed: 4,4'-Methylenediphenyl Diisocyanate

### California Prop. 65

No products were found.

### Canada

#### Canadian lists

**Canadian NPRI:** The following components are listed: Isocyanic acid, polymethylenepolyphenylene ester; 4,4'-Methylenediphenyl Diisocyanate

**Canada inventory:** All components are listed or exempted.

## **SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

**Revision date** : 06/29/2017

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### **Party Responsible for the Preparation of This Document**

The Garland Company, Inc.  
3800 East 91st Street  
Cleveland, Ohio 44105-2197  
T-800-762-8225

*This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety, and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.*

North America GHS US 2017 & WHMIS



# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** Fill-Lock SL (Part B)

**Product Code:** 2310 - 22

#### Intended Use of the Product

Concrete Repair. For professional use only.

#### Name, Address, and Telephone of the Responsible Party

##### **Manufacturer**

The Garland Company, Inc.  
3800 East 91st Street  
Cleveland, Ohio 44105-2197  
T-800-762-8225  
F-216-641-0633

[www.garlandco.com](http://www.garlandco.com)

##### **Supplier**

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3800 East 91st Street  
Cleveland, Ohio 44105-2197  
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F-216-641-0633

[www.garlandco.com](http://www.garlandco.com)

#### Emergency Telephone Number

**Emergency number** : 1-800-762-8225 24 hours

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

**Classification (GHS-US)**

Chronic Aqua. 3 H412

#### 412Label Elements

##### **GHS-US Labeling**

**Hazard Pictograms (GHS-US)** :

**Signal Word (GHS-US)** : No signal word

**Hazard Statements (GHS-US)** : H412-harmful to aquatic life with long lasting effects

**Precautionary Statements (GHS-US)** : P273 - Avoid release to the environment.  
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### Other Hazards

**Other Hazards Not Contributing to the Classification:** Not available

**Unknown Acute Toxicity (GHS-US)** Not available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Name	Product identifier	% (w/w)	Classification (GHS-US)
Oxirane, 2-methyl-, polymer with oxirane	(CAS No) 9003-11-6	5-10	
1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate	(CAS No) 6846-50-0	25-50	
2,2' -Oxybisethanol	(CAS No) 111-46-6	5-10	

### SECTION 4: FIRST AID MEASURES

#### Description of First Aid Measures

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Eyes:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention if irritation occurs.

# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Skin:** Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion:** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Other:** Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing media

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray or foam.

**Unsuitable extinguishing media:** None known

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Closed container may forcibly rupture under extreme heat or when contents are contaminated with water (CO<sub>2</sub> formed). Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volumes of water applied from a safe distance, since reaction between water and hot diisocyanate can be vigorous.

**Hazardous thermal decomposition products:** Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides

**Special protective actions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders:** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

**Spill:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## SECTION 7: HANDLING AND STORAGE

**Handling:** Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage:** Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### United States

##### Occupational exposure limits

Component	Exposure limits
-1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate	-NONE
-Oxirane, 2-methyl-, polymer with oxirane	-NONE
-2,2' -Oxybisethanol	-AIHA WEEL (United States, 10/2011). TWA: 10 mg/m <sup>3</sup> 8 hours.

#### Canada

##### Occupational exposure limits

Component	Exposure limits
-2,2' -Oxybisethanol	-AIHA WEEL (United States, 10/2011). TWA: 10 mg/m <sup>3</sup> 8 hours.

**Appropriate engineering controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### Individual protection measures

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:** Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

Physical State	: Liquid (Clear)
Appearance	: Black (Light Grey - cured).
Flash Point	: Closed cup: 129.44°C (265°F) [Tagliabue.]

# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Odor</b>	: Slight odor
<b>Vapor Pressure</b>	: 0.013 kPa (0.1 mm Hg) @ 25°C
<b>Relative Density</b>	: .98
<b>Viscosity</b>	: Kinematic: 0.6 cm <sup>2</sup> /s (60 cSt) @ 77°F
<b>V.O.C. Content</b>	: 19 g/L (tested per ASTM D2369, Method E) 9.70 g/L (0.90%) (calculated per CARB Method 310)
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	: Not expected to present an explosion hazard due to mechanical impact.
<b>Explosion Data – Sensitivity to Static Discharge</b>	: Not expected to present an explosion hazard due to static discharge.

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** No specific test data related to reactivity available for this product or its ingredients.

**Chemical Stability:** The product is stable.

**Possibility of Hazardous Reactions:** Polymerization will occur when Mixed.

**Conditions to Avoid:** No specific data.

**Incompatible Materials:** Reactive or incompatible with the following materials: oxidizing materials and alkalis.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Acute Toxicity

Product/ingredient name	Result	Species	Dose
-Oxirane, 2-methyl-, polymer with oxirane	-LC50 Inhalation Vapor	Rabbit	320 mg/m <sup>3</sup>
-2,2' -Oxybisethanol	- LD50 Oral - LD50 Oral -LD50 Dermal	Rat Rat Rabbit	12000 mg/kg 9200 mg/kg 5700 mg/kg

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Exposure
-1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate	-Skin - Mild irritant -Skin - Mild irritant	Guinea pig Human	5 g 504 hours 1% Intermittent
-2,2' -Oxybisethanol	-Eyes - Mild irritant -Skin - Mild irritant -Skin - Mild irritant	Rabbit Human Rabbit	50 mg 72 hours 112 mg Intermittent 500 mg

#### Acute Toxicity Estimates

Route	ATE Value
Oral	7586.8 mg/kg

### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

Product/ingredient name	Result	Species	Exposure
-2,2' -Oxybisethanol	Acute LC50 75200000 µg/L Fresh water	Fish - Pimephales promelas	96 hours

#### Bioaccumulative potential

# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Product/ingredient name	LogPow	BCF	Potential
-1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate	-	5340	high
-2,2' -Oxybisethanol	- 1.98	100	low

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### SECTION 14: TRANSPORT INFORMATION

**14.1 In Accordance with DOT** Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

#### Federal Regulations

**TSCA 5(a)2 final significant new use rules:** 2-Methoxyethanol

**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

**TSCA 8(c) calls for record of SAR:** Isocyanic acid, polymethylenepolyphenylene ester; 4,4'-Methylenediphenyl Diisocyanate

**Clean Water Act (CWA) 311:** Diammonium carbonate; Phosphoric acid

#### SARA 311/312

**Classification:** Not applicable

#### Composition/information on ingredients

Product/ingredient name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
-2,2' -Oxybisethanol	No	No	No	Yes	No

#### SARA 313

No data available

#### State regulations

**Massachusetts:** None of the components are listed.

**New York:** None of the components are listed.

**New Jersey:** None of the components are listed.

**Pennsylvania:** The following components are listed: Oxydipropanol; 2,2' -Oxybisethanol

#### California Prop. 65

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

#### Canada

None of the components are listed.

# Fill-Lock SL

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision date** : 06/29/2017

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### **Party Responsible for the Preparation of This Document**

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*This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety, and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.*

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