



# LiquiTec FG (Part A)

## Safety Data Sheet

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

Revision date: 03/11/2024 Date of issue: 05/12/2023

Revision: 2

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** LiquiTec FG Part A

**Product Code:** 7875-A, 7848-A

#### Intended Use of the Product

Aliphatic Polyurea Coating. For professional use only.

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

##### **Manufacturer**

The Garland Company, Inc.  
3800 East 91<sup>st</sup> Street  
Cleveland, Ohio 44105-2197  
T-800-762-8225  
F-216-641-0633  
www.garlandco.com

##### **Supplier**

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

The Garland Company, Inc.  
209 Carrier Drive  
Toronto, Ontario M9W 5Y8  
T-416-747-7995 800-387-5991  
F-416-747-1980

#### Emergency Telephone Number

**Emergency number** : 1-800-262-8200 (CHEMTREC)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

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

Acute Tox. Oral 4 H302  
Skin Irrit. 2 H315  
Eye Irrit. 2A H319  
Acute Tox. Inhal. 2 H330

#### Label Elements

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

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



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

: Danger

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

: H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation.  
H330 - Fatal if inhaled

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

: P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear eye protection, face protection, protective clothing, protective gloves  
P284 - Wear respiratory protection  
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing  
P310 - Immediately call a POISON CENTER or doctor/physician  
P320 - Specific treatment is urgent (see supplemental instructions on the administration of antidotes on this label)  
P321 - Specific treatment (see supplemental instructions on the administration of antidotes on this label).

# LiquiTec FG (Part A)

## Safety Data Sheet

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

P330 - Rinse mouth  
P332+313 - If skin irritation occurs: Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P403+233 - 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

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

#### Mixture

Name	Product identifier	% (w/w)	Classification (GHS-US)
Aliphatic Diisocyanate	(CAS No) 4098-71-9	16-20	Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330
Aliphatic Urethane Prepolymer	Proprietary	35-42	
Phosphoric trichloride, reaction products with propylene oxide	1244733-77-4	5-10	Acute Tox. 4 (Oral), H302
Ammonium polyphosphate	68333-79-9	0-5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
Titanium dioxide	(CAS No) 13463-67-7	6-10	Skin Irrit. 2, H315

Full text of H-phrases: see section 16

### SECTION 4: FIRST AID MEASURES

#### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**Skin Contact:** Dry skin with paper towel or similar. Wash affected skin thoroughly with soap and water. Immediately remove contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if any discomfort continues.

**Eye Contact:** Immediately flush with copious amounts of lukewarm water for at least 15 minutes. Have eyes examined and treated by medical personnel.

**Ingestion:** If swallowed, give 1 to 2 glasses of water to drink and contact a physician immediately. Do not induce vomiting. Decision to induce vomiting should only be made by a physician. Never give anything by mouth to an unconscious person.

### SECTION 5: FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** CO<sub>2</sub>, foam or dry chemicals.

#### Special Hazards Arising From the Substance or Mixture

Vapors may be ignited by heat or sparks. Heat-exposed containers may burst. Empty container contains product residues. Do not pressurize, cut, weld, drill, grind or expose containers to heat flame, sparks, static electricity or other sources of ignition. They may explode and cause injury or death.

#### Advice for Firefighters

Use water spray to cool containers. If water is used to fight fire, use very large quantities of cold water. Wear NIOSH/OSHA approved, self-contained breathing apparatus and full protective gear.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Evacuate all non-essential personnel to safe places. Wear eye, skin and respiratory protection during cleanup. For major spills, emergency responders should wear positive pressure supplied air respirator with full face piece and proper protective gear before entering the affected area.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

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## Safety Data Sheet

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**Emergency Procedures:** Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### **Methods and Material for Containment and Cleaning Up**

Remove all sources of ignition. Provide ventilation. Respiratory protection is recommended during spill clean-up. Stop leak if possible without risk. Prevent liquids from entering sewers, drains or waterways by diking with sand or earth. Absorb with vermiculite or other absorbent material, then flush area with decontamination solution. Put in open drums. Treat and clean with decontamination solution consisting of water containing 4-8% ammonia and 2% detergent.

### **Reference to Other Sections**

See Heading 8. Exposure controls and personal protection.

## SECTION 7: HANDLING AND STORAGE

### **Precautions for Safe Handling**

Provide good ventilation. Avoid prolonged contact with the skin. Air circulations and exhaustion of isocyanate vapors must be maintained until the coatings have fully cured so that no potential health hazard remains. Use solvent resistant gloves. Avoid rubbing eyes while handling. Respiratory caution to be taken if the cured product is ground or sanded as this may generate irritating dusts.

### **Conditions for Safe Storage, Including Any Incompatibilities**

Store in cool, dry, ventilated space away from direct sunlight. Keep away from heat, sparks, open flames, electrical equipment, welding torches, pilot lights, etc. Store at 10-30° C.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control Parameters**

Component	CAS No.	Exposure Limit
Aliphatic diisocyanate	4098-71-9	.02ppm OSHA PEL
Titanium dioxide	13463-67-7	10 mg/m <sup>3</sup> OSHA TWA, 10 mg/m <sup>3</sup> ACGIH TWA

### **Exposure Controls**

**Appropriate Engineering Controls:** Provide local exhaust or area ventilation to maintain concentration of vapors below TLV. Use explosion proof ventilation equipment. Take care not to draw vapors into occupied office areas or enclosed areas with inhabitants.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Use solvent resistant gloves and long sleeved clothing.

**Respiratory Protection:** If airborne concentrations exceed or are expected to exceed the TLV, use MSHA/NIOSH approved positive pressure supplied air respirator with a full-face piece during application. After application use CCR (Chemical Cartridge Respirator) until material is cured.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### **Information on Basic Physical and Chemical Properties**

Physical State	: Viscous liquid
Appearance	: White, Gray
Odor	: Typical paint odor
pH	: Not applicable
Boiling Point	: 320 - 486°F

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## Safety Data Sheet

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

Flash Point	:	>250 °F (Cleveland Open Cup)
Vapor Pressure	:	0.0009 Hg@ 20°C
Relative Vapor Density at 20 °C	:	> air
Relative Density	:	Not available
Solubility in Water	:	Negligible
Specific Gravity	:	1.1
VOC	:	0 g/L

### SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions. Avoid heat, sparks, flames.

**Conditions to Avoid:** Avoid contact with strong oxidizing materials and bases. Avoid contact with water.

**Incompatible Materials:** Strong oxidizers. Alkali metals.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects – Product

**Primary Eye Irritation:** Irritating

**Primary Skin Irritation:** Irritating

**Acute Dermal Toxicity:** NA

**Subacute Dermal Toxicity:** NA

**Dermal Sensitization:** NA

**Inhalation Toxicity:** NA

**Inhalation Sensitization:** NA

**Oral Toxicity:** Mutagenicity: NA

**Carcinogenicity:** No

**Reproductive Toxicity:** NA

**Teratogenicity:** NA

**Immunotoxicity:** NA

**Neurotoxicity:** NA

**Other:** NA

### SECTION 12: ECOLOGICAL INFORMATION

#### Toxicity

**Aquatic Toxicity:** Not known.

**Terrestrial Toxicity:** Not known

**Chemical Fate and Transport:** Not known.

No other ecological information available

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Additional Information:** Mix the chemical with an inert material such as sand, vermiculite, etc. and place in a suitable container.

Dispose of in accordance with Local Authority requirements.

**Ecology – Waste Materials:** Avoid release to the environment. Hazardous waste due to toxicity.

### SECTION 14: TRANSPORT INFORMATION

**DOT Proper Shipping Name:** Not Regulated

**IATA Proper Shipping Name:** Not Regulated

**IMO Proper Shipping Name:** Not Regulated

**IMDG Proper Shipping Name:** Not Regulated

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

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<b>LiquiTec (Part A)</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Delayed (chronic) health hazard Immediate (acute) health hazard Pressure Reactive
<b>SARA Section 313</b>	Aliphatic diisocyanate (CAS ) 4098-71-9

<b>Titanium dioxide (13463-67-7)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### US State Regulations

<b>Quartz (14808-60-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.

<b>Titanium dioxide (13463-67-7)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.

<b>Titanium dioxide (13463-67-7)</b>	
RTK - U.S. - Massachusetts - Right To Know List	
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List	
RTK - U.S. - Pennsylvania - RTK (Right to Know) List	

<b>Titanium dioxide (13463-67-7)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

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

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

**Revision date** : 03/11/2024  
**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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