

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: N/A Date of issue: 06/07/2019

## **SECTION 1: IDENTIFICATION**

<u>Product Identifier</u> <u>Product Form:</u> Mixture

Product Name: LiquiTec Base Part A

Product Code: 7846-A Intended Use of the Product

Aliphatic Polyurea Coating. For professional use only.

Name, Address, and Telephone of the Responsible Party

Manufacturer Supplier

The Garland Company, Inc.

The Garland Company, Inc.

The Garland Company, Inc.

3800 East 91<sup>st</sup> Street 3800 East 91<sup>st</sup> Street 209 Carrier Drive

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**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 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 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 no 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). P330 - Rinse mouth

P332+313 - If skin irritation occurs: Get medical advice/attention.

06/07/2019 EN (English US) Page 1 of 5

#### Safety Data Sheet

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

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		Acute Tox. 4 (Oral), H302
			Acute Tox. 2 (Inhalation:dust,mist), H330
Aliphatic Urethane Prepolymer	Proprietary		
Titanium dioxide	(CAS No) 13463-67-7		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:** CO2, 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**

### <u>Personal Precautions, Protective Equipment and Emergency Procedures</u>

**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).

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.

06/07/2019 EN (English US) Page **2** of **5** 

#### Safety Data Sheet

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

### 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/m³ OSHA TWA, 10 mg/m³
		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.



**Vapor Pressure** 



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 liquidAppearance: Colored viscous liquidOdor: Typical paint odorpH: Not applicableBoiling Point: 320 - 486°FFlash Point: 41 °C (105.8 °F)

Relative Vapor Density at 20 °C : > air

06/07/2019 EN (English US) Page **3** of **5** 

0.0009 Hg@ 20ºC

#### Safety Data Sheet

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

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**

## <u>Information on Toxicological Effects - Product</u>

Primary Eye Irritation: Irritating
Primary Skin Irritation: Irritating
Acute Dermal Toxicity: NA
Subacute Dermal Toxicity: NA
Dermal Sensitization: NA
Inhalation Toxicity: NA
Oral Toxicity: Mutagenicity: NA

Carcinogenicity: No
Reproductive Toxicity: NA
Teratogenicity: NA
Immunotoxicity: NA

Other: NA

**Neurotoxicity: 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**

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

06/07/2019 EN (English US) Page **4** of **5** 

#### Safety Data Sheet

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

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

## **US State Regulations**

Quartz (14808-60-7)	
U.S California - Proposition 65 - Carcinogens List  WARNING: This product contains chemicals known to the State o California to cause cancer.	
Titanium dioxide (13463-67-7)	
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of
	California to cause cancer.

#### Titanium dioxide (13463-67-7)

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

## **Canadian Regulations**

LiquiTec Base (Part A)	
WHMIS Classification	Class B Division 3 - Combustible Liquid

Titanium dioxide (13463-67-7)		
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** : 06/07/2019

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

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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.

North America GHS US 2019 & WHMIS

06/07/2019 EN (English US) Page **5** of **5** 



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: N/A Date of issue: 06/07/2019

## **SECTION 1: IDENTIFICATION**

<u>Product Identifier</u> <u>Product Form:</u> Mixture

Product Name: LiquiTec Base Part B

Product Code: 7846-B Intended Use of the Product

Aliphatic Polyurea Activator. For professional use only.

Name, Address, and Telephone of the Responsible Party

Manufacturer Supplier

The Garland Company, Inc.

The Garland Company, Inc.

The Garland Company, Inc.

3800 East 91<sup>st</sup> Street 3800 East 91<sup>st</sup> Street 209 Carrier Drive

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www.garlandco.com

**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
Acute Tox. Dermal 4 H312
Eye Damage 2A H319
STOT RE 2 H373
Aqua. Acute 1 H400
Aqua. Chronic 1 H410

Label Elements
GHS-US Labeling

Hazard Pictograms (GHS-US)







Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H302 - Harmful if swallowed

H312-Harmful in contact with skin H319-Causes serious eye irritation

H373-May cause damage to organs through prolonged or repeated exposure if conclusively

proven that no other route applies H400-Very toxic to aquatic life

H410-Very toxic to aquatic life with long lasting effects P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

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

P204 - Wash race, hands and any exposed skin thoroughly after handling

P273 - Avoid release to the environment.

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minuts. Remove

contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

06/07/2019 EN (English US) Page 1 of 5

#### Safety Data Sheet

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

P322 - Specific measures (see Sec. 5 on this SDS).

P337 + P313 - If eye irritation persists: Get medical advice/attention.

P391 - Collect spillage.

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)
Diethyl Methyl Benzene Diamine	(CAS No) 68479-98-1		Acute Tox. 4 (Oral), H302
			Acute Tox. Dermal 4, H312
			Eye Damage 2A, H319
			STOT RE 2, H373
			Aqua. Acute 1, H400
			Aquz. Chronic 1, H410
Aldimine	Proprietary		

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: CO2, 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. Material may collect static charges which can cause an incendiary electrical discharge. 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 only to cool containers. Wear NIOSH/OSHA approved, self-contained breathing apparatus and full protective gear.

#### **Hazardous Combustion By-Products**

CO, CO2, Nox, HCN, unburned hydrocarbons.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

**General Measures:** Immediately evacuate all non-essential personnel to safe places. Emergency responders should wear proper protective gear before entering the affected area. Observe all precautions noted above.

#### 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).

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.

06/07/2019 EN (English US) Page **2** of **5** 

#### Safety Data Sheet

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

### Methods and Material for Containment and Cleaning Up

Remove all sources of ignition. Avoid sparks, flames, heat and smoking. Ventilate. 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 soap and water. Put all waste in open drums.

#### **Reference to Other Sections**

See Heading 8. Exposure controls and personal protection.

#### **SECTION 7: HANDLING AND STORAGE**

## **Precautions for Safe Handling**

Eliminate all ignition sources such as fire, flames, sparks, ect. Provide good ventilation. Avoid prolonged contact with the skin. Use solvent resistant gloves. Avoid rubbing eyes while handling.

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

Store in cool, dry, ventilated space away from direct sunlight. Keep away from heat, sparks, and any open source of flames. Store at 10-30° C.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Control Parameters**

Component	CAS No.	Exposure Limit
Diethyl Methyl Benzene Diamine	68479-98-1	NA
Aldimine	Trade Secret	NA

#### **Exposure Controls**

**Appropriate Engineering Controls:** Provide local exhaust or area ventilation to maintain concentration of vapors below TLV Use explosion proof ventilation equipment. When used with the base resin or other coatings, take care not to draw vapors into occupied office areas or 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.

Respiratory Protection: When using spray application, use MSHA/NIOSH approved positive pressure supplied air respirator with a

full-face piece during application. After application use CCR (Chemical Cartridge Respirator).

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 : Thin liquid

**Appearance** : Clear or pigmented liquid

Odor: Amine odorpH: Not applicableDOT Corrosivity: Corrosive, NOS

Boiling Point : Greater than 200° C @ 53mm Hg

Flash Point : 93.33 °C (200 °F)

Vapor Pressure : NA
Relative Vapor Density at 20 °C : > air

Relative Density : Not available
Solubility in Water : Negligible
Specific Gravity : .98
VOC : 0 g/L

06/07/2019 EN (English US) Page **3** of **5** 

#### Safety Data Sheet

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

## **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. Reacts with water.

#### **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
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:** UN 1760, Corrosive Liquid, N.O.S. (Contains Amine), Class 8, PG III **IATA Proper Shipping Name:** UN 1760, Corrosive Liquid, N.O.S. (Contains Amine), Class 8, PG III **IMDG Proper Shipping Name:** UN 1760, Corrosive Liquid, N.O.S. (Contains Amine), Class 8, PG III **IMDG Proper Shipping Name:** UN 1760, Corrosive Liquid, N.O.S. (Contains Amine), Class 8, PG III

## **SECTION 15: REGULATORY INFORMATION**

#### **US Federal Regulations**

LiquiTec Base (Part B)	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
	Immediate (acute) health hazard
	Fire
	Pressure
	Reactive
SARA Section 313	None

#### **US State Regulations**

U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of	
	California to cause cancer.	

06/07/2019 EN (English US) Page **4** of **5** 

#### Safety Data Sheet

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

## **Canadian Regulations**

LiquiTec Base Part B

WHMIS Classification Class B Division 3 - Combustible Liquid



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 : 06/07/2019

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

www.garlandco.com

F-216-641-0633

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 2019 & WHMIS

06/07/2019 EN (English US) Page **5** of **5**