



LiquiTec FG (Part B)

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: 2.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: LiquiTec FG Part B

Product Code: 7875-B. 7848-B

Intended Use of the Product

Aliphatic Polyurea Activator. 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

Supplier

The Garland Company, Inc.
3800 East 91st 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
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
H311 – Toxic in contact with skin
H314 – Causes severe skin burns and eye damage
H318 – Causes serious eye damage
H330 – Fatal if inhaled
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

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
P265 – Do not touch eyes.
P270 – Do not eat, drink, or smoke when using this product
P273 - Avoid release to the environment.
P280 - Wear eye protection, face protection, protective clothing, protective gloves
P301+P317 – IF SWALLOWED: Get emergency medical help

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P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P316 – Get emergency medical help immediately
P361+P364 – Take off immediately all contaminated clothing and wash it before reuse
P314 - Get medical advice/attention if you feel unwell.
P322 - Specific measures (see Sec. 5 on this SDS).
P330 – Rinse mouth
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P391 - Collect spillage.
P363 – Wash contaminated clothes before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P361+P354 – IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338 – IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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)
Diethyl Methyl Benzene Diamine	(CAS No) 68479-98-1	43-48	Acute Tox. 4 (Oral), H302 Acute Tox. Dermal 4, H312 Eye Damage 2A, H319 STOT RE 2, H373 Aqua. Acute 1, H400 Aqz. Chronic 1, H410
Aldimine	Proprietary	28-31	
2,2'-dimethyl-4,4'-methylenebis(cyclohexane)	(CAS No) 6884-37-5	15-25	Eye damage 1, H318 Acute toxicity (oral) 4, H302 Acute toxicity (Dermal) 3, H311 Acute toxicity (Inhalation – vapor) 2, H330 Acute toxicity (inhalation, - dust and mist) 2, H330 Skin Corrosion 1B, H314

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.

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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.

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.



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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 odor
pH	: Not applicable
DOT 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

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

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

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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

The 5 gallon bucket of Liqui Tec Part A&B has inner packaging of 0.5 gallons of Part B and is exempt from labeling requirements per CFR 49 173.154. Smaller pack sizes will also fall under this exemption.

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

IMO 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 (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.
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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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