Safety Data Sheet
POLYGLASS LRF-PG ECO PART 2
Safety Data Sheet dated: 09/11/2024 - version 1
Date of first edition: 09/11/2024

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: POLYGLASS LRF-PG ECO PART 2

Trade code: PLY0150

Recommended use of the chemical and restrictions on use

Recommended use: Polyurethane foam

Restrictions on use: Not available

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: Polyglass U.S.A. Inc.

1111 West Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Phone: 866-222-9782

Responsible: RDProductSafety@mapei.com

Emergency 24 hour numbers:

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

Skin Sensitization, Category 1	May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2	Suspected of causing genetic defects if inhaled, in contact with skin and if swallowed.
Reproductive toxicity, Category 1B	May damage fertility. May damage the unborn child.
Specific target organ toxicity following repeated exposure, Category 1	Causes damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.
Gases under pressure (Compressed gas)	Contains gas under pressure; may explode if heated.

Label elements

Hazard pictograms and Signal Word

Danger

Hazard statements

H280	Contains gas under pressure; may explode if heated.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects if inhaled, in contact with skin and if swallowed.
H360FD	May damage fertility. May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.

P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P501	Dispose of contents/container in accordance with applicable regulations.

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not Relevant

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Qty	Name	Ident. Numb.	Classification	Registration Number
5-10 %	diethylene glycol; 2,2'-oxydiethanol	CAS:111-46-6 EC:203-872-2 Index:603-140-00-6	Acute Tox. 4, H302	01-2119457857-21-XXXX
5-10 %	(1e)-1-chloro-3,3,3-trifluoroprop-1-ene; trans-1-chloro-3,3,3-trifluoropropene	CAS:102687-65-0	Compr. Gas, H280; Aquatic Chronic 3, H412	
1-2.5 %	dibutyltin bis(lauryl mercaptide); dibutylbis(dodecylthio)stannane	CAS:1185-81-5 EC:214-688-7	Skin Irrit. 2, H315; Skin Sens. 1, H317; Muta. 2, H341; Repr. 1B, H360; STOT RE 1, H372	

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Obtain medical attention if skin related symptoms persist.

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms/effects, acute and delayed

Not available

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO_2).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not available

Oxidizing properties: Not available

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Storage temperature: Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
diethylene glycol; 2,2'-oxydiethanol CAS: 111-46-6	MAK	GERMANY	Long Term: 44 mg/m3 - 10 ppm
	MAK	AUSTRIA	Long Term: 44 mg/m3 - 10 ppm; Short Term: 176 mg/m3 - 40 ppm
	MAK	SWITZERLAND	Long Term: 44 mg/m3 - 10 ppm
dibutyltin bis(lauryl mercaptide); dibutylbis(dodecylthio) stannane CAS: 1185-81-5	MAK	GERMANY	Long Term: 0.02 mg/m3 - 0.004 ppm
	OSHA		Long Term: 0.1 mg/m3

ACGIH		Long Term: 0.1 mg/m3; Short Term: 0.2 mg/m3 "A4 - Not Classifiable as a Human Carcinogen" As Tin organic compounds [RR-00042-0];"Skin - potential significant contribution to overall exposure by the cutaneous route" As Tin organic compounds [RR-00042-0];"eye and upper respiratory tract irritation;headache;nausea;CNS and immune effects" As Tin organic compounds [RR-00042-0]
MAK	SWITZERLAND	Long Term: 0.1 mg/m3 - 0.004 ppm
MAK	SWITZERLAND	Long Term: 0.02 mg/m3 - 0.004 ppm
MAK	AUSTRIA	Long Term: 0.1 mg/m3; Short Term: 0.2 mg/m3 - 0.008 ppm

Predicted No Effect Concentration (PNEC) values

diethylene glycol; 2,2'-oxydiethanol CAS: 111-46-6	Exposure Route: Fresh Water; PNEC Limit: 10 mg/l
	Exposure Route: Marine water; PNEC Limit: 1 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 20.9 mg/kg
	Exposure Route: Soil; PNEC Limit: 1.53 mg/kg
	Exposure Route: Intermittent release; PNEC Limit: 10 mg/l
	Exposure Route: Marine water sediments; PNEC Limit: 2.09 mg/kg
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 199.5 mg/l

Derived No Effect Level (DNEL) values

diethylene glycol; 2,2'-oxydiethanol CAS: 111-46-6	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 53 mg/kg; Consumer: 53 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 60 mg/m3; Consumer: 12 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 60 mg/m3; Consumer: 12 mg/m3

Appropriate engineering controls: Not available

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: aerosol

Odour: Sweet

Odour threshold: No data available

pH: No data available

Melting point / freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: 100 °C (212 °F)

Evaporation rate: No data available

Upper/lower flammability or explosive limits: No data available
Vapour density: No data available
Vapour pressure: No data available
Relative density: 1.00 g/cm3
Solubility in water: slightly soluble
Solubility in oil: No data available
Partition coefficient (n-octanol/water): No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Explosive properties: No data available
Oxidizing properties: No data available
Solid/gas flammability: No data available

Other information

Substance Groups relevant properties No data available
Miscibility: No data available
Fat Solubility: No data available
Conductivity: No data available

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	The product is classified: Skin Sensitization, Category 1(H317)
e) germ cell mutagenicity	The product is classified: Germ cell mutagenicity, Category 2(H341)
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	The product is classified: Reproductive toxicity, Category 1B(H360)
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	The product is classified: Specific target organ toxicity following repeated exposure, Category 1(H372)
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

diethylene glycol; 2,2'-oxydiethanol	a) acute toxicity	LD50 Skin Rabbit > 2000 mg/kg

dibutyltin bis(lauryl mercaptide); dibutylbis(dodecylthio) stannane	a) acute toxicity	LD50 Skin Rabbit 1000 mg/kg

Substance(s) listed on the IARC Monographs:

None

Substance(s) listed as OSHA Carcinogen(s):

None

Substance(s) listed as NIOSH Carcinogen(s):

None

Substance(s) listed on the NTP report on Carcinogens:

None

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
diethylene glycol; 2,2'-oxydiethanol	CAS: 111-46-6 - EINECS: 203-872-2 - INDEX: 603-140-00-6	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 24
		a) Aquatic acute toxicity : EC50 Algae > 100 mg/L - 8 d
		b) Aquatic chronic toxicity : NOEC Fish > 100 mg/L - 7 d
		b) Aquatic chronic toxicity : NOEC Daphnia > 100 mg/L - 7 d
		e) Plant toxicity : EC50 = 11779 mg/kg
		b) Aquatic chronic toxicity : NOEC Algae = 2700 mg/L - 8 d
		a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 75200 mg/L 96h EPA
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 84000 mg/L 48h IUCLID

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

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14. TRANSPORT INFORMATION

UN number

DOT-UN Number: UN3500

ADR-UN number: 3500

IATA-Un number: 3500

IMDG-Un number: 3500

UN proper shipping name

DOT-Proper Shipping Name: Chemical under pressure, n.o.s (1-chloro-trifluoropropene)

ADR-Shipping Name: CHEMICAL UNDER PRESSURE, N.O.S. (1-chloro-trifluoropropene)

IATA-Technical name: CHEMICAL UNDER PRESSURE, N.O.S. (1-chloro-trifluoropropene)

IMDG-Technical name: CHEMICAL UNDER PRESSURE, N.O.S. (1-chloro-trifluoropropene)

Transport hazard class(es)

DOT-Hazard Class: 2.2

ADR-Class: 2

IATA-Class: 2.2

IMDG-Class: 2.2

Packing group

DOT Packing Group: -

ADR-Packing Group: -

IATA-Packing group: -

IMDG-Packing group: -

Environmental hazards

Marine pollutant: No

Environmental Pollutant: Not Applicable

DOT-RQ: No

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): 362, T50, TP40

DOT-Label(s): 2.2

DOT-Symbol: N/A

DOT-Cargo Aircraft: 150 kg

DOT-Passenger Aircraft: 75 kg

DOT-Bulk: 313, 315

DOT-Non-Bulk: 335

DOT-Limited Quantity threshold: 0

Road and Rail (ADR-RID) :

ADR-Label: 2.2

ADR-Hazard identification number: 20

ADR-Transport category (Tunnel restriction code): 3 (C/E)

Air (IATA) :

IATA-Passenger Aircraft: 218

IATA-Cargo Aircraft: 218

IATA-Label: 2.2

IATA-Subsidiary hazards: -

IATA-Erg: 2L

IATA-Special Provisioning: A187

Sea (IMDG) :

IMDG-Stowage Code: Category B

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274 362

IMDG-EMS: F-C, S-V

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15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory

TSCA listed substances:

diethylene glycol; 2,2'-oxydiethanol	is listed in TSCA	Section 8b Section 5
(1e)-1-chloro-3,3,3-trifluoroprop-1-ene; trans-1-chloro-3,3,3-trifluoropropene	is listed in TSCA	Section 8b
dibutyltin bis(lauryl mercaptide); dibutylbis(dodecylthio)stannane	is listed in TSCA	Section 8b Section 5

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

No substances listed

Section 313 - Toxic chemical list:

No substances listed

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

No substances listed

CAA - Clean Air Act

CAA listed substances:

diethylene glycol; 2,2'-oxydiethanol	is listed in CAA	Section 112(b) - HON

CWA - Clean Water Act

CWA listed substances:

No substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

No substances listed

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

No substances listed

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

diethylene glycol; 2,2'-oxydiethanol

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

No substances listed

Canada - Federal regulations

DSL - Domestic Substances List

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

This product complies with NDSL inventory

NPRI - National Pollutant Release Inventory

NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

16. OTHER INFORMATION

Safety Data Sheet dated: 9/11/2024 - version 1

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Code	Description
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
A.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
A.2/2	Skin Irrit. 2	Skin irritation, Category 2
A.4.2/1	Skin Sens. 1	Skin Sensitization, Category 1
A.5/2	Muta. 2	Germ cell mutagenicity, Category 2
A.7/1B	Repr. 1B	Reproductive toxicity, Category 1B
A.9/1	STOT RE 1	Specific target organ toxicity following repeated exposure, Category 1
B.5/C	Compr. Gas	Gases under pressure (Compressed gas)
US-HAE/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
CLP: Classification, Labeling, Packaging.
EINECS: European Inventory of Existing Commercial Chemical Substances.
INCI: International Nomenclature of Cosmetic Ingredients.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
GefStoffVO: Ordinance on Hazardous Substances, Germany.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
DNEL: Derived No Effect Level.
PNEC: Predicted No Effect Concentration.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
WGK: German Water Hazard Class.
KSt: Explosion coefficient.