# Safety Data Sheet POLYPUF PART A

Safety Data Sheet dated: 02/25/2023 - version 2 Date of first edition: 07/18/2022



Product identifier

Mixture identification:

Trade name: POLYPUF PART A

# Trade code: PLY0103

Recommended use and restrictions on use

Recommended use: Polyurethane foam

Restrictions on use: Not available

# Supplier's details

Company: Polyglass U.S.A. Inc.

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

Phone: +1 866-222-9782

Responsable: info@polyglass.com

# **Emergency phone number**

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887 Emergency Transport CANUTEC (Canada) 1-613-996-6666

## 2. Hazard identification



classification of the product	
Acute toxicity (inhalation), Category 4	Harmful if inhaled.
Skin irritation, Category 2	Causes skin irritation.
Eye irritation, Category 2A	Causes serious eye irritation.
Respiratory Sensitization, Category 1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sensitization, Category 1	May cause an allergic skin reaction.
Carcinogenicity, Category 2	Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
Specific target organ toxicity following single exposure, Category 3	May cause respiratory irritation.
Specific target organ toxicity following repeated exposure, Category 2	May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

#### Label elements

**Pictograms and Signal Words** 



# Hazard statements

Hazard stateme	nts
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.



#### **Precautionary statements**

Frecautionally statements					
P201	Obtain special instructions before use.				
P202	Do not handle until all safety precautions have been read and understood.				
P260	Do not breathe mist/vapours/spray.				
P264	Wash skin thoroughly after handling.				
P271	Use only outdoors or in a well-ventilated area.				
P272	Contaminated work clothing must not be allowed out of the workplace.				
P280	Wear protective gloves/protective clothing/eye protection/face protection.				
P284	[In case of inadequate ventilation] wear respiratory protection.				
P302+P352	IF ON SKIN: Wash with plenty of water.				
P304+P340	IF INHALED: Remove person to fresh air and keep 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 advice/attention.				
P312	Call a POISON CENTER if you feel unwell.				
P321	Specific treatment (see supplementary instructions on this label)				
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.				
P337+P313	If eye irritation persists: Get medical advice/attention.				
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER.				
P362+P364	Take off contaminated clothing and wash it before reuse.				
P403+P233	Store in a well-ventilated place. Keep container tightly closed.				
P405	Store locked up.				
P501	Dispose of contents/container in accordance with applicable regulations.				
Other hazards					
None					
Ingredient(s) with unknown acute toxicity					
None					

None

## 3. Composition/information on ingredients

# Substances

Not Relevant

# Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

# List of components

Qty	Name	Ident. Numb.	Classification	<b>Registration Number</b>
50-75 %	polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenylene ester	CAS:9016-87-9 EC:618-498-9 Index:615-005- 00-9	Acute Tox. 4, H332; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Eye Irrit. 2A, H319	
10-20 %	4,4'-methylenediphenyl diisocyanate; benzene, 1,1'- methylenebis[4-isocyanato-	CAS:101-68-8 EC:202-966-0 Index:615-005- 00-9	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; STOT RE 2, H373; Carc. 2, H351; Resp. Sens. 1, H334; Skin Sens. 1, H317	

The actual concentration of the components listed above is withheld as a trade secret.

# 4. First-aid measures

# Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

# In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist

immediately.

Protect uninjured eye.

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

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.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

# Most important symptoms/effects, acute and delayed

Eye irritation Eye damages Skin Irritation

Erythema

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

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

#### Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Unsuitable extinguishing media:

None in particular.

#### Specific hazards arising from the hazardous product

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not Relevant

Oxidizing properties: Not Relevant

### 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.

Do not use on extensive surface areas in premises where there are occupants.

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.

Wash skin thoroughly after handling.

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
polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenylene ester CAS: 9016-87-9		GERMANY	Long Term: 0.05 mg/m3
4,4'-methylenediphenyl diisocyanate; benzene, 1,1'- methylenebis[4-isocyanato- CAS: 101-68-8	ACGIH		Long Term: 0.005 ppm respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI));
	OSHA		Ceiling - Short Term: 0.2 mg/m3 - 0.02 ppm
	MAK	GERMANY	Long Term: 0.05 mg/m3
	ACGIH		Long Term: 0.005 ppm respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
	MAK	AUSTRIA	Long Term: 0.05 mg/m3 - 0.005 ppm; Short Term: 0.1 mg/m3 - 0.01 ppm

#### Appropriate engineering controls

#### Not available

#### Individual protection measures, such as personal protective equipment (PPE)

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: Dark brown Not Relevant Odour: aromatic Odour threshold: Not Relevant pH: Not Relevant Melting point / freezing point: Not Relevant Initial boiling point and boiling range: Not Relevant Flash point: 218 °C (424 °F) Evaporation rate: Not Relevant Slower than ether Upper/lower flammability or explosive limits: Not Relevant Vapour density: Heavier than air Vapour pressure: No data available

Relative density: 1.22 g/cm3 Solubility in water: reacts with water Solubility in oil: Not Relevant Partition coefficient (n-octanol/water): Not Relevant Auto-ignition temperature: Not Relevant Decomposition temperature: Not Relevant Viscosity: Not Relevant Explosive properties: Not Relevant Oxidizing properties: Not Relevant Solid/gas flammability: Not Relevant

#### Other information

Substance Groups relevant properties Not Relevant Miscibility: Not Relevant Fat Solubility: Not Relevant Conductivity: Not Relevant

### 10. Stability and reactivity

#### Reactivity

Stable under normal conditions

# **Chemical stability**

Data not available.

# Possibility of hazardous reactions

None.

# **Conditions to avoid**

Heat and open flames.

Incompatible materials

Water

## Hazardous decomposition products

None.

## 11. Toxicological information

Information on toxicological effects

### Likely routes of exposure:

Skin contact, skin absorption, eye contact, inhalation and ingestion.

# **Toxicological Information of the Preparation**

	a) acute toxicity	The product is classified: Acute toxicity (inhalation), Category 4(H332)	
		ATEmix - Inhalation (Vapours) : 11.8919 mg/l	
	b) skin corrosion/irritation	The product is classified: Skin irritation, Category 2(H315)	
	c) serious eye damage/irritation	The product is classified: Eye irritation, Category 2A(H319)	
	d) respiratory or skin sensitisation	The product is classified: Respiratory Sensitization, Category 1(H334), Skin Sensitization, Category 1(H317)	
e) germ cell mutagenicity Not classified		Not classified	
		Based on available data, the classification criteria are not met	
	f) carcinogenicity	The product is classified: Carcinogenicity, Category 2(H351)	
	g) reproductive toxicity	Not classified	
		Based on available data, the classification criteria are not met	
	h) STOT-single exposure	The product is classified: Specific target organ toxicity following single exposure, Category 3(H335)	
	i) STOT-repeated exposure	The product is classified: Specific target organ toxicity following repeated exposure, Category 2(H373)	
	j) aspiration hazard	Not classified	
		Based on available data, the classification criteria are not met	

# Toxicological information on main components of the mixture:

4,4'-methylenediphenyl a) acute toxicity diisocyanate; benzene, 1,1'-methylenebis[4isocyanatoLC50 Inhalation Rat = 369 mg/m3 4h

LD50 Oral Rat = 31600 mg/kg

#### Substance(s) listed on the IARC Monographs:

polymethylene polyphenylene Group 3 isocyanate; Isocyanic acid, polymethylenepolyphenylene ester

4,4'-methylenediphenyl Group 3 diisocyanate; benzene, 1,1'methylenebis[4-isocyanato-

## 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**

#### Ecotoxicity

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

## List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

### Persistence and degradability

N.A.

**Bioaccumulative potential** 

N.A.

Mobility in soil

N.A.

#### Other adverse effects

N.A.

# 13. Disposal considerations

## Safe handling and methods for disposal

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.

## 14. Transport information

Not classified as dangerous in the meaning of transport regulations.

# **UN number**

TDG-UN number: Not Applicable ADR-UN number: Not Applicable DOT-UN Number: Not Applicable IATA-Un number: Not Applicable

IMDG-Un number: Not Applicable

## **UN proper shipping name**

TDG-Shipping Name: Not Applicable ADR-Shipping Name: Not Applicable DOT-Proper Shipping Name: Not Applicable IATA-Technical name: Not Applicable IMDG-Technical name: Not Applicable

#### Transport hazard class(es)

TDG-Class: Not Applicable ADR-Class: Not Applicable DOT-Hazard Class: Not Applicable IATA-Class: Not Applicable IMDG-Class: Not Applicable

## Packing group

TDG-Packing Group: Not Applicable ADR-Packing Group: Not Applicable DOT Packing Group: Not Applicable IATA-Packing group: Not Applicable IMDG-Packing group: Not Applicable

#### **Environmental hazards**

Marine pollutant: No Environmental Pollutant: Not Applicable DOT-RQ: Not Applicable

## Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

Not Applicable

# Special precautions in connection with transport or conveyance

TDG:

Not Applicable Department of Transportation (DOT):

Not Applicable

Road and Rail (ADR-RID):

Not Applicable

# Air (IATA):

Not Applicable

Sea (IMDG):

Not Applicable

# 15. Regulatory information

# **Canada - Federal regulations**

# **DSL - Domestic Substances List**

**DSL** (Domestic Substances List)

All the substances are listed in the DSL.

## **NDSL - Non Domestic Substances List** NDSL (Non Domestic Substances List)

No substances listed

# **NPRI - National Pollutant Release Inventory**

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

No substances listed

# **USA - Federal regulations**

## **TSCA - Toxic Substances Control Act TSCA** inventory:

### **TSCA listed substances:**

4.4'-methylenediphenyl

diisocyanate; benzene, 1,1'methylenebis[4-isocyanato-

polymethylene polyphenylene is listed in TSCA Section 8b isocyanate; Isocyanic acid, polymethylenepolyphenylene ester

is listed in TSCA Section 8b Section 8a - PAIR

#### SARA - Superfund Amendments and Reauthorization Act

# Section 302 - Extremely Hazardous Substances:

No substances listed

#### Section 304 - Hazardous substances:

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

#### Section 313 - Toxic chemical list:

polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenylene ester

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

## CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act Substance(s) listed under CERCLA:

4,4'-methylenediphenyl diisocyanate; Reportable quantity: 5000 pounds benzene, 1,1'-methylenebis[4-isocyanato-

### CAA - Clean Air Act

#### CAA listed substances:

4,4'-methylenediphenyl is listed in CAA Section 112(b) - HAP Section 112(b) - HON diisocyanate; benzene, 1,1'methylenebis[4-isocyanato-

#### **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:

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

#### Pennsylvania Right to know

#### Substance(s) listed under Pennsylvania Right to know:

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

#### New Jersey Right to know

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

polymethylene polyphenylene isocyanate; Isocyanic acid, polymethylenepolyphenylene ester

4,4'-methylenediphenyl diisocyanate; benzene, 1,1'-methylenebis[4-isocyanato-

#### 16. Other information

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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			
H315	Causes skin irritatior	Causes skin irritation.		
H317	May cause an allergi	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.			
Print date	02/28/2023	Production Name	POLYPUF PART A	

- H332 Harmful if inhaled.
- 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.

Code	Hazard class and hazard category	Description
A.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
A.2/2	Skin Irrit. 2	Skin irritation, Category 2
A.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A
A.4.1/1	Resp. Sens. 1	Respiratory Sensitization, Category 1
A.4.2/1	Skin Sens. 1	Skin Sensitization, Category 1
A.6/2	Carc. 2	Carcinogenicity, Category 2
A.8/3	STOT SE 3	Specific target organ toxicity following single exposure, Category 3
A.9/2	STOT RE 2	Specific target organ toxicity following repeated exposure, Category 2

### 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.

## Paragraphs modified from the previous revision:

- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION