

Safety Data Sheet

POLYPUF H-1 PART B

Safety Data Sheet dated: 07/06/2020 - version 1

Date of first edition: 07/06/2020

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: POLYPUF H-1 PART B

Recommended use of the chemical and restrictions on use

Recommended use: Polyurethane foam

Restrictions on use: N.A.

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

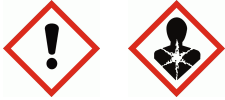
Phone: 866-222-9782

Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

2. HAZARD(S) IDENTIFICATION



Classification of the chemical

Acute Tox. 4	Harmful if swallowed.
Eye Irrit. 2A	Causes serious eye irritation.
Skin Irrit. 2	Causes skin irritation.
STOT RE 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



Warning

Hazard statements:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
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.
P301+P312	IF SWALLOWED: Call a POISON CENTER if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water.

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see supplementary instructions on this label).
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
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

N.A.

Mixtures

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

List of components

Quantity	Name	Ident. Numb.	Classification	Registration Number
10-20 %	Diethylene glycol	CAS:111-46-6	Acute Tox. 4, H302; STOT RE 2, H373	
5-10 %	(1E)-1-CHLORO-3,3,3-TRIFLUOROPROP-1-ENE	CAS:102687-65-0	Aquatic Chronic 3, H412; Compr. Gas, H280	
1-2.5 %	TRANS-1,2-DICHLOROETHYLENE	CAS:156-60-5	Flam. Liq. 2, H225; Acute Tox. 4, H332; Aquatic Chronic 3, H412	
1-2.5 %	N,N-DICYCLOHEXYLMETHYLAMINE	CAS:7560-83-0	Acute Tox. 4, H302; Skin Corr. 1B, H314	
0.1-0.25 %	Ethylene glycol	CAS:107-21-1	Acute Tox. 4, H302; STOT RE 2, H373; Eye Irrit. 2B, H320; STOT SE 2, H371	

4. FIRST AID MEASURES

Description of 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.

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 ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Give nothing to eat or drink.

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

- Eye irritation
- Eye damages
- Skin Irritation
- Erythema

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).

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

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: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

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.

See protective measures under point 7 and 8.

Methods and material for containment and cleaning up

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

Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

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

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

Storage temperature: N.A.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m ³	Long Term ppm	Short Term mg/m ³	Short Term ppm	Behaviour Note
Diethylene glycol	MAK	GERMANY		44	10			
	MAK	AUSTRIA		44	10	176	40	
	MAK	SWITZERLAND		44	10			
TRANS-1,2-DICHLOROETHYLENE	MAK	GERMANY		800	200			
	ACGIH				200			CNS impairment;eye irritation
	MAK	AUSTRIA		790	200	3160	800	
	MAK	SWITZERLAND		790	200			

Ethylene glycol	ACGIH		C			100				
	EU			52	20	104	40	Indicative	Possibility of significant uptake through the skin;	
	MAK	GERMANY		26	10					
	ACGIH				25	10	50		A4 - Not Classifiable as a Human Carcinogen; upper respiratory tract irritation	
	MAK	AUSTRIA		26	10	52	20			
	MAK	SWITZERLAND		26	10					
	EU			52	20	104	40	Indicative	Possibility of significant uptake through the skin	

Appropriate engineering controls: N.A.

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:

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

Respiratory protection:

Use adequate protective respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- Physical state: Liquid
- Appearance and colour: N.A.
- Odour: Like: Ether
- Odour threshold: N.A.
- pH: N.A.
- Melting point / freezing point: N.A.
- Initial boiling point and boiling range: 19 °C (66 °F)
- Flash point: 149 °C (300 °F)
- Evaporation rate: N.A.
- Upper/lower flammability or explosive limits: N.A.
- Vapour density: N.A.
- Vapour pressure: N.A.
- Relative density: 1.20 g/cm³
- Solubility in water: N.A.
- Solubility in oil: N.A.
- Partition coefficient (n-octanol/water): N.A.
- Auto-ignition temperature: N.A.
- Decomposition temperature: N.A.
- Viscosity: N.A.
- Explosive properties: N.A.
- Oxidizing properties: N.A.
- Solid/gas flammability: N.A.

Other information

- Substance Groups relevant properties N.A.
- Miscibility: N.A.
- Fat Solubility: N.A.
- Conductivity: N.A.

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 mixture:**

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

Diethylene glycol	a) acute toxicity	LD50 Skin Rabbit = 11890 mg/kg LD50 Oral Rat = 12565 mg/kg LD50 Skin Rabbit = 11890 mg/kg LC50 Inhalation Rat > 4600 mg/m ³ 4h
TRANS-1,2-DICHLOROETHYLENE	a) acute toxicity	LD50 Skin Rabbit = 5000 mg/kg LC50 Inhalation Rat = 24100 ppm 4h LD50 Oral Rat = 1235 mg/kg
N,N-DICYCLOHEXYLMETHYLAMINE	a) acute toxicity	LD50 Oral Rat = 446 mg/kg
Ethylene glycol	a) acute toxicity	LD50 Oral Rat = 4000 mg/kg LD50 Skin Rat = 10600 mg/kg LD50 Oral Rat = 4700 mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
Toxicological kinetics, metabolism
and distribution information
- i) STOT-repeated exposure
- j) aspiration hazard

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 components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
Diethylene glycol	CAS: 111-46-6	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
TRANS-1,2-DICHLOROETHYLENE	CAS: 156-60-5	a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 135 mg/L 96h
Ethylene glycol	CAS: 107-21-1	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 41000 mg/L 96h IUCLID a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 14 mL/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 27540 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 40000 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata = 16000 mg/L 96h IUCLID a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 46300 mg/L 48h IUCLID a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata 6500 mg/L 96h IUCLID a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 40761 mg/L 96h 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

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

UN number

ADR-UN number: N.A.

DOT-UN Number: N.A.

IATA-Un number: N.A.

IMDG-Un number: N.A.

UN proper shipping name

ADR-Shipping Name: N.A.

DOT-Proper Shipping Name: N.A.

IATA-Technical name: N.A.

IMDG-Technical name: N.A.

Transport hazard class(es)

ADR-Class: N.A.

DOT-Hazard Class: N.A.

IATA-Class: N.A.
IMDG-Class: N.A.

Packing group

ADR-Packing Group: N.A.
DOT-Packing group: N.A.
IATA-Packing group: N.A.
IMDG-Packing group: N.A.

Environmental hazards

Marine pollutant: No
Environmental Pollutant: N.A.

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

N.A.

Special precautions

Department of Transportation (DOT):

N.A.

Road and Rail (ADR-RID) :

N.A.

Air (IATA) :

N.A.

Sea (IMDG) :

N.A.

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

Diethylene glycol is listed in TSCA Section 8b Section 5
(1E)-1-CHLORO-3,3,3-TRIFLUOROPROP-1-ENE is listed in TSCA Section 8b
TRANS-1,2-DICHLOROETHYLENE is listed in TSCA Section 8b
N,N-DICYCLOHEXYLMETHYLAMINE is listed in TSCA Section 8b
Ethylene glycol 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:

TRANS-1,2-DICHLOROETHYLENE
Ethylene glycol

Section 313 - Toxic chemical list:

Diethylene glycol
Ethylene glycol

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

TRANS-1,2-DICHLOROETHYLENE	Reportable quantity:	1000	pounds
Ethylene glycol	Reportable quantity:	5000	pounds

CAA - Clean Air Act

CAA listed substances:

Diethylene glycol is listed in CAA Section 112(b) - HON
Ethylene glycol is listed in CAA Section 112(b) - HAP 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:

Ethylene glycol Listed as reproductive toxicant

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

TRANS-1,2-DICHLOROETHYLENE

Ethylene glycol

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Diethylene glycol

TRANS-1,2-DICHLOROETHYLENE

Ethylene glycol

New Jersey Right to know

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

Ethylene glycol

Canada - Federal regulations

DSL - Domestic Substances List

DSL Inventory:

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

NDSL Inventory:

No substances listed

NPRI - National Pollutant Release Inventory

Substances listed in NPRI:

No substances listed

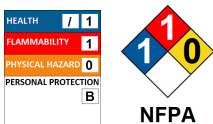
16. OTHER INFORMATION

Code	Description
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H332	Harmful if inhaled.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet dated: 7/6/2020 - version 1

Product code: PLY0012

Additional classification information



HMIS Health: 1 = Slight
HMIS Health - Is health hazard chronic? No
HMIS Flammability: 1 = Combustible if heated
HMIS Reactivity: 0 = Minimal
HMIS P.P.E.: Safety glasses, gloves
NFPA Health: 1 = Slight

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 0 = Minimal

NFPA Special Risk: N.A.

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.

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.