Safety Data Sheet 08/03/2023, Revision 3

SECTION 1. Identification of the substance or mixture and of the company or undertaking

1.1. Product ID

Trade name: Polyform part A

UFI: 6940-800Y-M00Q-RG8Y

1.2. Identified relevant uses of the substance or mixture and uses advised against

Recommended use:

Product manufacturing, packaging and distribution

Industrial use for the manufacture of rigid or flexible polyurethane foams by casting, spraying or moulding

Industrial use for the manufacture of polyurethane/polyurea elastomers by casting, spraying or moulding

1.3. Vendor details of the safety data sheet Provider:

Resin Pro srl

Via 25 Aprile z.i. snc

19021 Arcola (SP) - Italy

Competent person responsible for the safety data sheet: info@resinpro.it

1.4. Emergency telephone

CAV di Napoli, tel. 0817472870 (Azienda ospedaliera "Antonio Cardarelli", via A. Cardarelli 9, Napoli)
CAV di Firenze, tel. 0554277238 (Azienda ospedaliera universitaria Careggi, via Largo Brambilla 3, Firenze)
CAV di Pavia, tel. 038224444 (IRCCS Fondazione Salvatore Maugeri, via S. Maugeri 10, Pavia)
CAV di Milano, tel. 0266101029 (Ospedale Niguarda Ca' Granda, piazza Ospedale Maggiore 3, Milano)
CAV di Bergamo, tel. 800883300 (Azienda ospedaliera "Papa Giovanni XXIII", piazza OMS 1, Bergamo)
CAV di Roma, tel. 0649970698 (Policlinico Umberto I, viale del Policlinico 155, Rome)
CAV di Roma, tel. 063054343 (Policlinico "Agostino Gemelli", largo A. Gemelli 8, Rome)
CAV di Foggia, tel. 800183459 (Azienda ospedaliera universitaria Ospedali riuniti, Viale L. Pinto 1, Foggia)
CAV di Roma, tel. 0668591 (Ospedale pediatrico Bambino Gesù, piazza Sant'Onofrio 4, Rome)
CAV di Verona, tel. 800011858 (Azienda ospedaliera universitaria integrata di Verona, Piazzale A. Stefani 1, Verona)

SECTION 2. Hazard identification

2.1. Classification of the substance or mixture

Criteria Regulation EC 1272/2008 (Classification, Labeling and Packaging): Attention,

- Skin Irrit. 2, Causes skin irritation.
- Attention, Eye Irrit. 2, Causes severe eye irritation.
- Attention, Skin Sens. 1, It can provoke an allergic reaction on the skin. Attention,
- Carc. 2, It is suspected of causing cancer.
- Attention, STOT SE 3, May cause drowsiness or vertigo.
- Aquatic Chronic 2, Toxic to aquatic organisms, with long-lasting harmful effects.

Physico-chemical effects harmful to human health and the environment: No other risk

2.2. Label elements Hazard pictograms:

Attention Hazard

Statements:

H315 Causes skin irritation. H319
Causes severe eye irritation.
H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer. H336
May cause drowsiness or vertigo.
H411 Toxic to aquatic organisms, with long-lasting harmful effects.

Precautionary Statements:

P102 Keep out of reach of children
P103 Read label before use
P404 Store in a closed container
P405 Keep under lock and key
P501 Dispose of product/container in accordance with hazardous waste, container or container waste regulations
P201 Ask for special instructions before use.
P202 Do not handle the substance before all safety instructions have been read and understood.
P261 Avoid breathing dust/smoke/gas/mist/vapours/aerosol. P273 Avoid release into the environment.
P280 Wear gloves/garments/goggles/protective mask.
P391 Collect the spill.

Special provisions: None.

Contains:

Tetrachloroethylene
(Tert-butoxymethyl)oxirane: May cause an allergic reaction.

Special provisions in accordance with Annex XVII of the REACH Regulation and its subsequent amendments:

No.

2.3. Other hazards

vPvB substances: None. - PBT substances: None.

Other risks:

No other risk

SECTION 3. Composition/component information

3.1. Substance

s N.A.

3.2. Mixtures

Hazardous components according to the CLP Regulation and its corresponding classification:

Quantity	Name	ID number.	Classification
>= 30% - < 40%	Tetrachloroethylene	Number Index: 602-028-00-4 CAS: 127-18-4 EC: 204-825-9 REACH No.: 01-2119475329-28-xxxx	3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319 3.4.2/1 Skin Sens. 1 H317 3.6/2 Carc. 2 H351 3.8/3 STOT SE 3 H336 4.1/C2 Aquatic Chronic 2 H411
>= 0.1% - < 0.25%	(Tert-butoxymethyl) oxirane	CAS: 7665-72-7 EC: 231-640-0 REACH No.: 01-2120767971-41-XXXX	2.6/3 Flam. Liq. 3 H226 3.1/4/Oral Acute Tox. 4 H302 3.2/2 Skin Irrit. 2 H315 3.3/1 Eye Dam. 1 H318 3.4.2/1 Skin Sens. 1 H317 3.5/2 Muta. 2 H341 3.6/2 Carc. 2 H351 3.8/3 STOT SE 3 H335 4.1/C3 Aquatic Chronic 3 H412

SECTION 4. First aid

4.1. Description of first aid

In case of skin contact:

Remove contaminated clothing immediately.

Wash immediately with plenty of running water and possibly soap the areas of the body that have come into contact with the product, even if it is only a suspicion. Wash the body thoroughly (shower or bath).

Immediately remove contaminated clothing and dispose of it safely. In case of skin contact, wash immediately with plenty of soap and water.

In case of contact with eyes:

In case of contact with the eyes, rinse them with water for an adequate time and keeping the eyelids open, then immediately consult with an ophthalmologist. Protect the unharmed eye.

In case of ingestion:

Do not induce vomiting in any case. CONSULT YOUR DOCTOR IMMEDIATELY. In case of inhalation:

Take the injured person outdoors and keep him resting and warm.

4.2. Main symptoms and effects, acute and delayed

None

4.3. Indication of any medical care and special treatment to be provided immediately

In case of accident or discomfort, consult a doctor immediately (if it is possible to show you the instructions for use or the safety data sheet)

Treatment:

None

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

Appropriate extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media that should not be used for safety reasons: None in particular.

5.2. Specific hazards arising from the substance or mixture

Do not inhale the gases produced by explosion and combustion.

Combustion produces heavy smoke.

5.3. Recommendations for firefighting personnel Use appropriate breathing apparatus.

Separately collect contaminated water used to extinguish the fire. Do not discharge it into the sewer network.

If possible, from a safety point of view, immediately remove undamaged containers from the area.

SECTION 6. Measures in case of accidental spillage

6.1. Personal precautions, protective equipment and emergency procedures Use personal protective devices.

Get people to a safe place.

Consult the protective measures set out in points 7 and 8.

6.2. Environmental precautions

Prevent the product from penetrating the soil/subsoil. Prevent it from entering surface water or sewers.

Conserve contaminated wash water and dispose of it.

In case of gas leakage or penetration into water courses, soil or sewage system, inform the responsible authorities.

Material suitable for collection: absorbent material, organic, sand

6.3. Containment and cleaning methods and material Wash with plenty of water.

6.4. Reference to other sections

See also paragraphs 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapors and mists. Use the utmost care when handling or opening the container.
Do not use empty containers that have not been previously cleaned.
Before carrying out the transfer operations, ensure that there are no incompatible waste materials in the containers.
Contaminated clothing must be replaced before accessing lunch areas. Do not eat or drink during work.
Refer also to paragraph 8 for recommended protective devices.

7.2. Safe storage conditions, including possible incompatibilities Keep away from free flames and heat sources. Avoid direct sun exposure. Keep away from food, drink and feed.
Incompatible subjects: None
in particular. Indications for premises:
Properly ventilated premises.

7.3. Specific end uses No particular use

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Tetrachloroethylene - CAS: 127-18-4
- TWA: 172 mg/m3, 25 ppm - STEL: 689 mg/m3, 100 ppm

DNEL exposure limit values

Tetrachloroethylene - CAS: 127-18-4

Professional worker: 275 mg/m3 - Exposure: By human inhalation
Professional worker: 275 mg/m3 - Exposure: Human inhalation - Frequency: Short-term, local effects
Industrial worker: 39.4 mg/kg - Professional worker: 39.4 mg/kg bw/day - Consumer: 23 mg/kg - Exposure: Human dermal - Frequency: Long-term, systemic effects
Industrial worker: 138 mg/m3 - Professional worker: 138 mg/m3 - Consumer: 34.5 mg/m3 - Exposure: By human inhalation - Frequency: Long-term, systemic effects
Consumer: 1.3 mg/kg - Exposure: Human oral - Frequency: Long-term, systemic effects
Industrial worker: 275 mg/m3 - Consumer: 138 mg/m3 - Exposure: By human inhalation - Frequency: Short-term, systemic effects

Exposure limit values PNEC N.A.

8.2. Exposure controls Eye protection:

Glasses with side protection.

Skin protection:

Safety footwear.
Protective clothing against chemical agents.

Hand protection: Gloves with long cuffs.

NBR (nitrile-butadiene rubber).
NR (natural rubber, natural latex).

Respiratory protection:

Full masks/half-masks/quarter masks (DIN EN 136/140).

Thermal hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls: None

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Value	Method:	Notes:
Aspect:	Liquid		
Colour:	Colorless-transparent	--	--
Smell:	Characteristic	--	--
Odour threshold:		--	--
pH:	9	--	--
Melting/freezing point:		--	--
Initial boiling point and boiling range:	120 ºC 1013 mbar	--	--
Flash point (fp):	> 140 °C	--	--
Evaporation rate:		--	--
Flammability solids/gases:		--	--
Upper/lower flammability or explosion limit:		--	--
Vapour pressure:		--	--
Vapour density:		--	--
Relative density:	1,22	--	--
Water solubility:	NO	--	--
Solubility in oil:		--	--
Partition coefficient (n-octanol/water):		--	--
Auto-ignition temperature:	380 ºC	--	--

Decomposition temperature :		--	--
Viscosity:	80 mPa·s	--	--
Explosive properties:		--	--
Oxidizing properties:		--	--

9.2. Other information

Property	**Value**	**Method:**	**Notes:**
Miscibility:		--	--
Liposolubility:		--	--
Conductivity:		--	--
Characteristic properties of groups of substances:		--	--

SECTION 10. Stability and reactivity

10.1. Reactivity
Stable under normal conditions
10.2. Chemical stability
Stable under normal conditions
10.3. Possibility of dangerous reactions
None
10.4. Conditions to be avoided Stable under normal conditions.
10.5. Incompatible materials
None in particular.
10.6. Hazardous decomposition products
None.

SECTION 11. Toxicological information

11.1. Information on toxicological effects
Toxicological information of the product:
N.A.
Toxicological information on the main substances found in the product:
Tetrachloroethylene - CAS: 127-18-4
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 3000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 20 mg/l
Test: LD50 - Route: Skin - Species: Rabbit > 1000 mg/kg
Test: repeated and prolonged contact can cause slight irritation - Via: Skin Test: Corrosive to the eyes
Test: Skin sensitization - Via: Skin
(f) carcinogenicity:
Test: LOAEC - Route: Inhalation - Species: Mouse = 100 ppm - Duration: 6h

Unless otherwise specified, the data required by Regulation (EU)2015/830 below should be considered as N.A.:

a) acute toxicity;
b) skin corrosion or irritation;
c) severe eye injury or irritation;
d) respiratory or skin sensitization;
e) mutagenicity in germ cells;
f) carcinogenicity;
g) reproductive toxicity;
h) specific organ toxicity (STOT) – single exposure;
i) specific organ toxicity (STOT) – repeated exposure;
j) Aspiration hazard.

SECTION 12. Ecological information

12.1. Toxicity

Use with appropriate working techniques, avoiding the dispersion of the product in the environment.

Tetrachloroethylene - CAS: 127-18-4

a) Acute aquatic toxicity:

Parameter: CL50 - Species: Oncorhynchus mykiss = 5 mg/l - Duration h.: 96
Parameter: LC50 = 5 mg/l - Duration h.: 96
Parameter: EC50 - Species: Daphnia magna = 8.5 mg/l - Duration h.: 48
Parameter: EC50 = 3.64 mg/l - Duration h.: 72
Parameter: EC10 = 1.77 mg/l - Duration h.: 72

b) Chronic aquatic toxicity:

Parameter: NOEC - Species: Daphnia magna = 0.51 mg/l - Duration h.: 672

c) Toxicity in bacteria:

Parameter: IC50 = 112 mg/l - Duration h.: 24

12.2. Persistence and degradability

Tetrachloroethylene - CAS: 127-18-4

Biodegradability: Not rapidly degradable - %: 0

12.3. Bioaccumulation potential

Tetrachloroethylene - CAS: 127-18-4

Bioaccumulation: Low - Test: logPow 2.53
Bioaccumulation: Low - Test: BCF- bioaccumulation factor 49

12.4. Soil mobility Tetrachloroethylene - CAS: 127-18-4

Mobility on the ground: Mobile - Test: Koc 141

12.5. Results of the PBT and vPvB assessment

vPvB substances: None. - PBT substances: None.

12.6. Other side effects

None

SECTION 13. Disposal considerations

13.1. Methods for waste treatment

Recover if possible. Send to approved disposal centres or incineration under controlled conditions. Operate in accordance with current local and national regulations.

SECTION 14. Transport information

14.1. UN Number

ADR-UN Number:	UN2810
IATA-UN Number:	UN2810

IMDG-UN Number: UN2810

14.2. Official United Nations transport designation

ADR-Shipping Name: *ENTER PROPER SHIPPING NAME*<CMPDATA,1,0,,>
ADR-Issue Name: Liquid Organic toxic, n.e.s.
IATA-Shipping Name: *ENTER PROPER SHIPPING NAME*<CMPDATA,1,0,,>
IATA-Technical Name: Liquid Organic toxic, n.e.s.
IMDG-Shipping Name: *ENTER PROPER SHIPPING NAME*<CMPDATA,1,0,,>
IMDG-Technical Name: Liquid Organic toxic, n.e.s.

14.3. Transport hazard class(es) ADR-

Class: 6.1
ADR-Tag: 6.1
ADR - Hazard Identification Number: 60
IATA-Class: 6.1
IATA-Tag: 6.1
IMDG-Class: 6.1
IMDG-Class: 6.1

14.4. Packaging group

ADR-Group packing: III
IATA-Group packaging: III
IMDG-Group packing: III

14.5. Environmental hazards ADR-
Environmental Pollutant: Yes

14.6. Special precautions for users

14.7. Carriage in bulk in accordance with MARPOL Annex II and IBC Code N.A.

SECTION 15. Regulatory information

15.1. Safety, health and environmental legislation and regulations specific to the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) No 1907/2006 (REACH)
Regulation (EC) No 1272/2008 (CLP)
Regulation (EC) No 790/2009 (ATP 1 CLP) and (EU) No 758/2013
Regulation (EU) 2015/830
Regulation (EU) No 286/2011 (ATP 2 CLP)
Regulation (EU) No 618/2012 (ATP 3 CLP)
Regulation (EU) No 487/2013 (ATP 4 CLP)
Regulation (EU) No 944/2013 (ATP 5 CLP)
Regulation (EU) No 605/2014 (ATP 6 CLP)
Regulation (EU) 2015/1221 (ATP 7 CLP)
Regulation (EU) 2016/918 (ATP 8 CLP)
Regulation (EU) 2016/1179 (ATP 9 CLP)
Regulation (EU) 2017/776 (ATP 10 CLP)

Restrictions related to the product(s) contained, in accordance with Annex XVII to Regulation (EC) No 1907/2006 (REACH) and subsequent amendments:

Product Related Restrictions: Restriction 3
Restriction 40
Restrictions related to substances contained: No restrictions.

Directive 2012/18/EU (Seveso III) Regulation (EC) No 648/2004 (detergents). Dir. 2004/42/EC (VOC Directive)

Provisions on EU Directive 2012/18 (Seveso III):

Category Seveso III according to Annex 1, Part 1 the product belongs to category: E2

15.2. Chemical safety assessment

No chemical safety assessment has been performed for the mixture

SECTION 16. Other information

Text of sentences used in paragraph 2:

H315 Causes skin irritation.
H319 Causes severe eye irritation.
H317 May cause an allergic skin reaction. H351 Suspected of causing cancer.
H336 May cause drowsiness or vertigo.
H411 Toxic to aquatic organisms, with long-lasting harmful effects. H226 Flammable liquids and vapours.
H302 Harmful if swallowed. H318 Causes serious eye damage.
H341 Suspected of causing genetic defects. H335 May irritate the airways.
H412 Harmful to aquatic organisms, with long-lasting harmful effects.

Hazard class and category	**Code**	**Description**
Flam. Liq. 3	2.6/3	Flammable liquids, Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye injuries, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin sensitisation, Category 1
Mutates. 2	3.5/2	Germ cell mutagenicity, Category 2
Carc. 2	3.6/2	Carcinogenicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity (single exposure), Category 3
Aquatic Chronic 2	4.1/C2	Chronic (long-term) hazard to the aquatic environment, Category 2
Aquatic Chronic 3	4.1/C3	Chronic (long-term) hazard to the aquatic environment, Category 3

This fact sheet has been revised in all its sections in accordance with Regulation 2015/830. This document has been prepared by a competent person who has received a training

adequate
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information detailed here is based on our knowledge up to the date indicated above. It refers exclusively to the product indicated and does not constitute a guarantee of particular qualities.
The user must ensure the suitability and accuracy of such information in relation to the specific use to be made of the product.
This tab cancels and replaces any previous edition.

ADR:	Agreement European Commission on the international transport of dangerous goods by road.
CAS:	Chemical Abstracts Service (from the American Chemical Society). CLP: Classification labeling, packaging.
DNEL:	Level No derivative effect.
EINECS:	Catalogue European Chemicals on the Market. ETA: Estimate of acute toxicity
ETAmix:	Acute Toxicity Estimation (Mixtures) GefStoffVO: Ordinance on dangerous substances, Germany.
GHS:	System Globally Harmonized classification and labelling of chemicals.
IATA:	Association of International Air Transport.
IATA-DGR:	Standards applied to dangerous goods by the "International Air Transport Association" (IATA).
ICAO:	Organization of International Civil Aviation.
ICAO-TI:	Instructions Techniques of the "International Civil Aviation Organization" (ICAO).
IMDG:	Code International maritime dangerous goods. INCI: International nomenclature of cosmetic ingredients. KSt: Coefficient of explosion.
LC50:	Concentration lethal for 50% of the exposed population.
LD50:	Dose lethal for 50% of the exposed population.
PNEC:	Concentration planned without effect.
RID:	Standards relating to the international transport of dangerous goods by rail.
STEL:	Level of short-term exposure.
STOT:	Toxicity specific in certain organs. TLV: Value threshold limit.
TWA:	Average time-weighted
WGK:	Class of danger to waters (Germany).