Safety Data Sheet

compliant to Regulation (EC) No 1907/2006 (REACH) as amended by Regulation (EU) 2015/830 Date of issue: 06/07/2020 Version: 1.0

HEADING 1: Identification of the substance/mixture and the company/undertaking

1.1. Product Identifier

Product form : Substance

Name : Polycarbonate Filament

CAS N° : 25037-45-0 Synonyms : PC

1.2. Identified relevant uses of the substance or mixture and use not recommended

1.2.1. Relevant identified uses

Use of substance/mixture: 3D printing applications.

1.2.2. Uses not recommended

This product cannot be implanted in humans.

1.3. Information about the provider of the safety data sheet

Lattice Medical
80, rue du Docteur Yersin
59120
LOOS - FRANCE
T +33 6 73 59 08 71
julien.payen@lattice-medical.com

1.4. Emergency call number

| Country | Organization/Society | Address | Emergency number | Comment |
|---------|----------------------|---------------------------------------|----------------------|---------|
| France | ORFILA | http://www.centres- antipoison.net | +33 (0)8 00 59 59 59 | |

HEADING 2: Hazard Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Uncategorized

Adverse physicochemical effects on human health and the environment

To our knowledge, this product does not present any particular danger under normal conditions of use.

2.2. Labelling elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Labelling not applicable

2.3. Other hazards

This product does not meet the PBT or vPvB criteria in accordance with REACH.

SECTION 3: Composition/Component Information

3.1. Substances

| Name | | Classification according to Regulation (EC) No 1272/2008 [CLP] |
|---------------|----------------------|--|
| Polycarbonate | (CAS RN): 25037-45-0 | Uncategorized |

Safety Data Sheet

compliant to Regulation (EC) No 1907/2006 (REACH) as amended by Regulation (EU) 2015/830 Date of issue: 06/07/2020 Version: 1.0

3.2 Mixtures

Chemical nature : Mixing

HEADING 4: First aid

4.1. Description of first aid

First aid after inhalation : Remove the subject from the contaminated area and bring him to the fresh air. If

symptoms persist, call a doctor.

First aid after skin contact : Wash immediately with soap and plenty of water while removing all contaminated

clothing and shoes. Seek immediate medical attention if symptoms appear.

First aid after eye contact : Rinse immediately and thoroughly with water, also under the eyelids, for at least 15

minutes. Seek immediate medical attention if symptoms appear.

First aid after ingestion : In case of accidental ingestion consult a doctor immediately

4.2. Main symptoms and effects, acute and delayed

Symptoms/effects : None known

4.3. Indication of any immediate medical care and special treatment required

Symptomatic treatment.

HEADING 5: Fire-fighting measures

5.1. Extinguishing means

Appropriate extinguishing means : Use a dry chemical agent, CO2, water sprayer or alcohol foam

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products : Carbon oxides, hydrocarbon fragments

5.3. Advice to firefighters

Firefighting Instruction : Cool containers exposed to heat with sprayed water. Contain and contain extinguishing

fluids.

Fire protection : Do not intervene without appropriate protective equipment. Self-contained breathing

apparatus. Full protection of the body.

HEADING 6: Measures to be taken in the event of accidental dispersal

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure appropriate ventilation.

6.1.1. For non-first aiders

Emergency procedures : Avoid the accumulation of electrostatic charges.

6.1.2. For first aiders

Emergency procedures : Do not intervene without appropriate protective equipment. For more information, see

section 8: "Control of exposure-personal protection".

6.2. Precautions for environmental protection

Not applicable.

12/05/2022 (Version: 1.0) EN (English) 2/7

Safety Data Sheet

compliant to Regulation (EC) No 1907/2006 (REACH) as amended by Regulation (EU) 2015/830 Date of issue: 06/07/2020 Version: 1.0

6.3. Containment and cleaning methods and equipment

For retention : Prevent or limit the formation and dispersion of dust. Sweep or shovel the

spilled product and put it in a suitable container for disposal.

Cleaning methods : Wash the non-recoverable remainder with plenty of water.

Other information : Dispose of solid materials or residues in a licensed centre.

6.4. Reference to other headings

See section 13 for the disposal of waste resulting from clean-up.

HEADING 7: Handling and Storage

7.1. Precautions to be taken for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practices. Ensure proper

ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing. Do not breathe

in dust. Keep away from ignition sources.

Hygiene measures : Do not drink, eat or smoke in the workplace. Wash hands after any manipulation

7.2. Conditions for safe storage, including possible incompatibilities

Storage conditions : Store tightly closed in a dry and cool place. Keep away from heat and ignition sources.

Residual monomer vapours can accumulate in the headspace of closed containers.

Incompatible materials : Water, humidity.

Storage temperature : 10-40°C

7.3. Specific end-use(s)

No additional information available

HEADING 8: Exposure controls/personal protection

8.1. Control parameters

Does not contain substances with occupational exposure limit values.

8.2. Exposure controls

Hand protection:

Not required under normal conditions of use. In case of risk of splashing: Gloves resistant to chemicals (according to the standard NF EN 374 or equivalent)

Eye protection:

Safety glasses with side guards

Protection of the skin and body:

Wear appropriate long-sleeved protective clothing.

Respiratory protection:

Adequate ventilation. In case of formation of vapours / dusts, use an approved respirator fordust protection

12/05/2022 (Version: 1.0) EN (English) 3/7

Safety Data Sheet

compliant to Regulation (EC) No 1907/2006 (REACH) as amended by Regulation (EU) 2015/830 Date of issue: 06/07/2020 Version: 1.0

HEADING 9: Physical and chemical properties

9.1. Information on essential physical and chemical properties

Physical state : Solid
Appearance : Filament

Colour : Transparent with blue reflections

Smell : Odorless.

Olfactory threshold : No data available
ph : No data available
Relative evaporation rate (butyl acetate=1) : No data available

Melting point : None but the product gradually softens over a wide range of T°

Freezing point : No data available
Boiling point : No data available
Flash point : Not applicable
Auto-ignition temperature : 630°C

Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available

Relative density : > 1

Solubility : Not determined.

n-octanol/water partition coefficient (Log Pow) : No data available
Viscosity, kinematics : Not applicable
Viscosity, dynamic : Not applicable
Explosive properties : Not explosive.
Oxidizing properties : Not applicable
Explosive limits : Not applicable

9.2. Other information

Other properties : None

HEADING: Stability and responsiveness

10.1. Responsiveness

To our knowledge, this product does not present any particular danger under normal conditions of use.

10.2. Chemical stability

Stable at normal ambient temperature and pressure. Dangerous polymerization does not occur.

10.3. Possibility of dangerous reactions

No known reaction.

10.4. Conditions to avoid

Do not overheat, in order to avoid thermal decomposition.

May release hazardous gases when heating. Do not exceed the melting temperature recommended in the product documentation. Collected hot material purges should be small in size and flat and thin in shape and soaked with water to allow for rapid cooling. Do not leave the product, long in the barrel at high temperatures.

12/05/2022 (Version: 1.0) EN (English) 4/7

Safety Data Sheet

compliant to Regulation (EC) No 1907/2006 (REACH) as amended by Regulation (EU) 2015/830 Date of issue: 06/07/2020 Version: 1.0

10.5. Incompatible substances

No special restrictions for common storage.

10.6. Hazardous decomposition products

Under the recommended transformation conditions, process vapours may contain traces of, hydrocarbons, phenols, alkylphenols, diarylcarbonates, If present, certain hazardous additives may also release halogens, hydrohalogenated acids or halogenated hydrocarbons

HEADING 11 : Toxicological information

11.1. Information on toxicological effects

| Acute toxicity (oral/dermal/inhalation) | : Acute oral toxicity - Remarks: >5000 mg/kg (estimated) Acute dermal toxicity - Remarks: >2000 mg/kg (estimated) |
|---|--|
| Skin corrosion/irritation | : Unclassified (Based on available data, classification criteria are not met) |
| Severe eye damage/eye irritation | : Unclassified (Based on available data, classification criteria are not met) |
| Respiratory or skin sensitization | : Unclassified (Based on available data, classification criteria are not met) |
| Germ cell mutagenicity | : Unclassified (Based on available data, classification criteria are not met) |
| Carcinogenicity | : Unclassified (Based on available data, classification criteria are not met) |
| Reproductive toxicity | : Unclassified (Based on available data, classification criteria are not met) |
| Specific target organ toxicity (single exhibition) | : Unclassified (Based on available data, classification criteria are not met) |
| Specific target organ toxicity (repeated exposure) | : Unclassified (Based on available data, classification criteria are not met) |

Polycarbonate (25037-45-0)

Viscosity, kinematics Not applicable

HEADING 12: Ecological information

12.1. Toxicity

Suction hazard

Hazards to the aquatic environment, short-term (acute) : Unclassified (Based on available data, classification criteria are not met)

Hazards to the aquatic environment, long-term (chronic): Unclassified (Based on available data, classification criteria are not met)

12.2. Persistence and degradability

| Persistence and degradability Data not available | Polycarbonate (25037-45-0) |
|--|-------------------------------|
| | Persistence and degradability |

: Unclassified (Technical impossibility to obtain data)

12.3. Bioaccumulation potential

| Polycarbonate (25037-45-0) | |
|----------------------------|--------------------|
| Bioaccumulation potential | No data available. |

12/05/2022 (Version: 1.0) EN (English) 5/7

Safety Data Sheet

compliant to Regulation (EC) No 1907/2006 (REACH) as amended by Regulation (EU) 2015/830 Date of issue: 06/07/2020 Version: 1.0

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessments

Polycarbonate (25037-45-0)

This substance/mixture does not fulfil the PBT criteria of reach regulation annex XIII

This substance/mixture does not meet the vPvB criteria of reach regulation annex XIII

12.6. Other adverse effects

No additional information available

HEADING 13: Disposal Considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose in accordance with applicable local requirements.

Recommendations for product/packaging processing : Do not reuse empty containers.

Additional information : The user's attention is drawn to the possible existence of specific laws, regulations and

administrative provisions, Community, national or local, relating to disposal, concerning him.

European Waste Catalogue Code (EDC) : 16 05 09 - discarded chemicals other than those specified in 16 05 06, 16 05 07 or 16 05

80

HEADING 14 : Transport information

In accordance with adr / RID / IMDG / IATA / AND requirements

| ADR | IMDG | IATA | DNA | Rid |
|-----------------------------------|-------------|-------------|-------------|-------------|
| 14.1. UN number | | | | |
| Unregulated | Unregulated | Unregulated | Unregulated | Unregulated |
| 14.2. UN proper shipping name | | | | |
| Unregulated | Unregulated | Unregulated | Unregulated | Unregulated |
| 14.3. Transport hazard class(ies) | | | | |
| Unregulated | Unregulated | Unregulated | Unregulated | Unregulated |
| 14.4. Packing group | | | | |
| Unregulated | Unregulated | Unregulated | Unregulated | Unregulated |
| 14.5. Environmental hazards | | | | |
| Unregulated | Unregulated | Unregulated | Unregulated | Unregulated |

14.6. Special precautions to be taken by the user

Overland transport

Unregulated

Shipping

Unregulated

Air transport

Unregulated

Inland waterway transport

12/05/2022 (Version: 1.0) EN (English) 6/7

Safety Data Sheet

compliant to Regulation (EC) No 1907/2006 (REACH) as amended by Regulation (EU) 2015/830 Date of issue: 06/07/2020 Version: 1.0

Unregulated

Rail transport

Unregulated

14.7. Carriage in bulk in accordance with Annex II to the Marpol Convention and the IBC Code

Not applicable

HEADING 15: Regulatory Information

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

15.1.1. EU regulation

No restrictions according to Annex XVII of REACH

Polycarbonate is not on the REACH Candidate list

Polycarbonate is not listed in Annex XIV of REACH

Polycarbonate is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 on the export and import of hazardous chemicals

Polycarbonate is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National guidelines

No additional information available.

15.2. Chemical safety assessment

No chemical safety assessments were conducted.

HEADING 16: Other information

| Abbreviations and acronyms: | | |
|-----------------------------|--|--|
| DNA | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways | |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road | |
| Case | Chemical Abstracts Service (division of the American Chemical Society) | |
| CLP | Regulation on Classification, Labelling and Packaging; Regulation (EC) No 1272/2008 | |
| ECHA | ECHA - European Chemicals Agency | |
| IATA | International Air Transport Association | |
| IMDG | International Maritime Dangerous Goods Code | |
| Pbt | Persistent, bioaccumulative and toxic | |
| REACH | Registration, evaluation, authorisation and restriction of chemical substances. REACH Regulation (EU) No 1907/2006 | |
| Rid | International Regulations concerning the Carriage of Dangerous Goods by Rail | |
| vPvB | Very persistent and very bioaccumulative | |

Data sources

: ECHA - European Chemicals Agency. Supplier SDS.

EU SDS (Annex II REACH)

This information is based on our current knowledge and describes the product for health, safety and environmental needs only. They should therefore not be interpreted as guaranteeing any specific property of the product.

12/05/2022 (Version: 1.0) EN (English) 7/7