

# Poly(lactic-co-glycolic) acid

## 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 : GLYCOLACTISSE 85/15  
CAS N° : 30846-39-0  
Synonyms : PLGA

#### 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

No additional information available

#### 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](mailto:julien.payen@lattice-medical.com)

#### 1.4. Emergency call number

Country	Organization/Society	Address	Emergency number	Comment
France	ORFILA	<a href="http://www.centres-antipoison.net">http://www.centres-antipoison.net</a>	+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

Other hazards that do not result in classification: Dust can form an explosive mixture with air.

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

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### SECTION 3: Composition/Component Information

#### 3.1. Substances

Name	Product Identifier	Classification according to Regulation (EC) No 1272/2008 [CLP]
Poly(lactic-co-glycolic acid)	(CAS NO) 30846-39-0	Uncategorized

Notes: L-lactide: 85 mol% Glycolide: 15 mol%

#### 3.2 Mixtures

Not applicable :

### 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 with soap and water as a precaution. In case of redness or irritation, call a doctor.
First aid after eye contact	: Wash with soap and water as a precaution. In case of redness or irritation, call a doctor.
First aid after ingestion	: Rinse the mouth with water. Do not give anything to drink to an unconscious subject. Do not make you vomit. In case of discomfort consult a doctor

#### 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 : Foam. Carbon dioxide (CO<sub>2</sub>). Sprayed water.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products : By thermal decomposition (pyrolysis), releases: Carbon oxides (CO, CO<sub>2</sub>).

#### 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 proper ventilation

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### 6.1.1. For non-first aiders

Emergency procedures : Evacuate the danger zone. Do not touch or step on spilled product. Avoid contact with eyes, skin or clothing. Prevent or limit the formation and dispersion of dust. Avoid any possible source of ignition.

### 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

Contain and contain land application. Do not discharge into sewers and rivers.

## 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 handling.

### 7.2. Conditions for safe storage, including possible incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Keep the container tightly closed. Store under inert gas. Protect from moisture. Keep away from ignition sources.

Incompatible materials : Water, humidity.

Storage temperature : 4°C

### 7.3. Specific end-use(s)

No additional information available

## HEADING 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 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:

Not required under normal conditions of use. In case of risk of splashing; Safety glasses with side protections

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### Protection of the skin and body:

Wear appropriate protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear an appropriate breathing apparatus

## HEADING 9: Physical and chemical properties

### 9.1. Information on essential physical and chemical properties

Physical state	: Solid
Appearance	: Filament
Colour	: Variable. Transparent. reflections: Yellow-brown.
Smell	: Odorless.
Olfactory threshold	: No data available
ph	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: $\approx 140 - 165$ °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: $> 240$ °C
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Hydrolysis in water.
n-octanol/water partition coefficient (Log Pow)	: No data available
Viscosity, kinematics	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Dust can form an explosive mixture with air.
Oxidizing properties	: Non-oxidizing according to EC criteria.
Explosive limits	: No data available

### 9.2. Other information

Other properties : Glass transition temperature:  $\approx 58 - 64$  °C.

## 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

Hydrolysis in water.

### 10.3. Possibility of dangerous reactions

Dust can form an explosive mixture with air.

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### 10.4. Conditions to avoid

None, to our knowledge.

### 10.5. Incompatible substances

Water, humidity

### 10.6. Hazardous decomposition products

No hazardous decomposition products should be generated under normal conditions of storage and use.

## HEADING 11 : Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral/dermal/inhalation)	: Unclassified (Based on available data, classification criteria are not met)
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)
Suction hazard	: Unclassified (Technical impossibility to obtain data)

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Viscosity, kinematics Not applicable

## HEADING 12 : Ecological information

### 12.1. Toxicity

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

### 12.2. Persistence and degradability

### Poly(lactic-co-glycolic acid) (30846-39-0)

Persistence and degradability	Hydrolysis. Easily biodegradable.
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### 12.3. Bioaccumulation potential

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Bioaccumulation potential	Non-bioaccumulative.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessments

Poly(lactic-co-glycolic acid) (30846-39-0)	
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: Do not reuse empty containers.  
processing

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 08

## HEADING 14 : Transport information

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

ADR	IMDG	IATA	DNA	RID
<b>14.1. UN number</b>				
Unregulated	Unregulated	Unregulated	Unregulated	Unregulated
<b>14.2. UN proper shipping name</b>				
Unregulated	Unregulated	Unregulated	Unregulated	Unregulated
<b>14.3. Transport hazard class(ies)</b>				
Unregulated	Unregulated	Unregulated	Unregulated	Unregulated
<b>14.4. Packing group</b>				
Unregulated	Unregulated	Unregulated	Unregulated	Unregulated
<b>14.5. Environmental hazards</b>				
Unregulated	Unregulated	Unregulated	Unregulated	Unregulated

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### 14.6. Special precautions to be taken by the user

#### Overland transport

Unregulated

#### Shipping

Unregulated

#### Air transport

Unregulated

#### Inland waterway transport

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

Poly(lactic-co-glycolic acid) is not on the REACH Candidate list

Poly(lactic-co-glycolic acid) is not listed in Annex XIV of REACH

Poly(lactic-co-glycolic acid) 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

Poly(lactic-co-glycolic acid) 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 assessment has been carried out

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### 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.