

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

# PLA\_handles

CAS number: -  
EC number (EINECS/ELINCS): -  
EC index number: -  
REACH registration number: -

### 1.2 Relevant, identified uses of the substance or mixture and uses advised against

Identified uses of the substance or mixture: Plastic articles  
Not recommended uses of the substance or mixture: Other

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer**

ERKODENT Erich Kopp GmbH  
Siemensstrasse 3

Telephone: 07445 8501 0  
Fax: 07445 2092

D 72285 Pfalzgrafenweiler

**Supplier**

ERKODENT Erich Kopp GmbH  
Siemensstrasse 3

Telephone: 07445 8501 0  
Fax: 07445 2092

D 72285 Pfalzgrafenweiler

**Information contact**

ERKODENT Erich Kopp GmbH

Information Telephone: 07445 8501 21

Information fax:

E-mail (competent person): w.heuchert@erkodent.com

Website: www.erkodent.com

**National contact**

ERKODENT Erich Kopp GmbH

Information Telephone: 07445 8501 0

Information fax:

E-mail (competent person): info@erkodent.com

Website:

### 1.4 Emergency telephone number

ERKODENT Erich Kopp GmbH  
Only available during office hours.

Telephone: 07445 8501 0

### 1.5 Dept. responsible for information

Entwicklung +49 (0) 7445 8501-21

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]. The preparation is not dangerous in the sense of Directive 1999/45/EC.

### 2.2 Label elements

#### 2.2.1 Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms:

Signal word: -  
 H phrases: -  
 P phrases: -

#### 2.2.2 Labelling according to Directive 67/548/EEC

Hazard symbols:

R phrases: -  
 S phrases: -

### 2.3 Other hazards

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]. This substance is classified as not hazardous according to 67/548/EEC.

## 3. Composition/information on ingredients

### 3.1 Chemical characterization of the substance or mixture

Polymilchsäure PLA, CAS NUMBER – 26100-51-6

### 3.2 Composition of the substance or mixture

| Substance:          | EC-no.: | CAS-No.: | INDEX no.: | REACH-no.: | Concentration: | Classification: EC 1272/2008(CLP): | Classification: 67/548/EEC: |
|---------------------|---------|----------|------------|------------|----------------|------------------------------------|-----------------------------|
| Polylactic acid PLA |         |          |            |            |                |                                    |                             |

#### Ingredients with EC exposure limits

| Substance: | EC-no.: | CAS-No.: | INDEX no.: | REACH-no.: | Concentration: | Classification: EC 1272/2008(CLP): | Classification: 67/548/EEC: |
|------------|---------|----------|------------|------------|----------------|------------------------------------|-----------------------------|
|            |         |          |            |            |                |                                    |                             |

(The wording of the listed risk phrases is given in Chapter 16)

### 3.3 Additional information

---

none

---

## 4. First aid measures

### 4.1 Description of first aid measures

- General information:** No special measures are necessary.
- Following inhalation:** Do not breathe dust. Dust should be exhausted directly at the point of origin. Inhalation of dust may cause irritation of the respiratory system.
- After skin contact:** No special measures are necessary. Following contact with the melted product, quickly cool affected skin area with water. Immerse in cold water for a prolonged period. Burns caused by molten material must be treated clinically. Irritating to skin. slightly irritant
- Following eye contact:** Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist. Irritating to eyes. Dust protection goggles.
- After ingestion:** No special measures are necessary.
- Self-protection:** First aid assistant: Pay attention to self-protection!

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms:** No information available.
- Nature of Hazard:** No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Emergency aid:** No information available.
- Treatment:** No information available.
- 

## 5. Fire fighting measures

### 5.1 General information

No information available.

### 5.2 Extinguishing media

- Suitable:** Extinguishing powder. Carbon dioxide. alcohol resistant foam. Water.
- Unsuitable:** Extinguishing materials should be selected according to the surrounding area.

### 5.3 Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Sulphur dioxide (SO<sub>2</sub>). Formaldehyde.

### 5.4 Advice for fire fighters

#### Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

---

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

No special measures are necessary.

---

## 6.2 Environmental precautions

No special environmental protection measures are necessary.

## 6.3 Methods and materials for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

## 6.4 References to other sections

Treat the recovered material as prescribed in the section on waste disposal.

---

## 7. Handling and storage

### 7.1 Precautions for safe handling

#### Information for safe handling

Avoid generation of dust. Dust must be vacuumed up immediately at the place it occurs.

#### Technical measures

Use extractor hood (laboratory).

#### Precautions against fire and explosion

Keep away from sources of ignition - No smoking.

#### Additional information

none

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

No special technical protective measures are necessary.

#### Packaging materials

Keep/Store only in original container.

#### Requirements for storerooms and containers

Store in a dry place.

#### Information about storing together in storage facility

XXXX Conditions to avoid: UV-radiation/sunlight.

#### Further information concerning storage conditions

Always close containers tightly after the removal of product. at room temperature

**Storage class:** 11 Combustible solids.

### 7.3 Specific end use(s)

Observe instructions for use.

---

## 8. Exposure controls / personal protection

### 8.1 Control parameters

#### 8.1.1 Limits for occupational exposure

##### Exposure limit values

| Substance: | CAS-No.: | Source: | Occupational exposure limit value: | Limitation of exposure peaks: | Remark: |
|------------|----------|---------|------------------------------------|-------------------------------|---------|
|------------|----------|---------|------------------------------------|-------------------------------|---------|

**EC exposure limit values**

| Substance: | CAS-No.: | Source: | Occupational exposure limit value: | Limitation of exposure peaks: | Remark: |
|------------|----------|---------|------------------------------------|-------------------------------|---------|
|            |          |         |                                    |                               |         |

**8.1.2 DNEL and PNEC values****DNEL-values**

| Substance: | CAS-No.: | DNEL/DMEL | Industry | Professional | consumer |
|------------|----------|-----------|----------|--------------|----------|
|            |          |           |          |              |          |

**PNEC-values**

| Substance: | CAS-No.: | PNEC | Worker, industry | Worker, professional | consumer |
|------------|----------|------|------------------|----------------------|----------|
|            |          |      |                  |                      |          |

**8.1.3 Control-Banding****Control-Banding**

none

**8.1.4 Additional information**

none

**8.2 Exposure controls****Occupational exposure controls**

none

**Chemical handling**

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Take off immediately all contaminated clothing.

**Personal protection equipment**

Dust protection goggles.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required. Technical ventilation of workplace.

**Hand protection**

See chapter 7. No additional measures necessary.

**Eye protection**

Dust protection goggles.

**Skin protection**

Skin protection: not required.

**Environmental exposure controls**

refer to chapter 7. No further action is necessary.

**Consumer exposure controls**

refer to chapter 7. No further action is necessary.

**8.3 Exposure scenario**

none

**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

**Appearance**

**State of matter:** solid  
**Colour:** white  
**Odour:** characteristic  
**Odour threshold:** No data available

**Safety relevant basis data**

|   | Parameter | Value     | Unit              | Remark         |
|---|-----------|-----------|-------------------|----------------|
| <b>Density:</b>                                     |           | 1,24      | g/cm <sup>3</sup> |                |
| <b>Package density:</b>                             |           |           |                   | not determined |
| <b>pH:</b>  |           |           |                   | not applicable |
| <b>Melting point / range:</b>                       |           | 150 - 160 | °C                |                |
| <b>Boiling temperature / range:</b>                 |           |           |                   | not determined |
| <b>Flash point:</b>                                 |           |           |                   | not determined |
| <b>Flammability:</b>                                |           |           |                   | not determined |
| <b>Lower flammability limit:</b>                    |           |           |                   | not determined |
| <b>Upper flammability limit:</b>                    |           |           |                   | not determined |
| <b>Explosion hazard:</b>                            |           |           |                   | not explosive. |
| <b>Lower explosion limit:</b>                       |           |           |                   | not applicable |
| <b>Upper explosion limit:</b>                       |           |           |                   | not applicable |
| <b>Ignition temperature:</b>                        |           |           |                   | not determined |
| <b>Decomposition temperature:</b>                   |           | 250       | °C                |                |
| <b>Oxidizing characteristics:</b>                   |           |           |                   | not determined |
| <b>Vapour pressure:</b>                             |           |           |                   | not applicable |
| <b>Relative vapour density:</b>                     |           |           |                   | not applicable |
| <b>Speed of vaporization/evaporation rate:</b>      |           |           |                   | not applicable |
| <b>Solubility in water:</b>                         |           |           |                   | insoluble      |
| <b>Fat solubility:</b>                              |           |           |                   | not determined |
| <b>Solubility in log P O/W (n-octanol / water):</b> | :         |           |                   | not determined |
| <b>Viscosity:</b>                                   |           |           |                   | not applicable |
| <b>Solvent separation test:</b>                     |           |           |                   | not applicable |
| <b>Solvent content:</b>                             |           |           |                   | not applicable |

**9.2 Other information**

none

**10. Stability and reactivity****10.1 Reactivity**

No risks worthy of mention. No data available

**10.2 Chemical stability**

Reacts with : Solvents/Thinner Etchant and acids

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

UV-radiation/sunlight.

**10.5 Incompatible materials**

acid. Base. Oxidizing agents

**10.6 Hazardous decomposition products**

Hydrocarbons. Carbon dioxide (CO<sub>2</sub>) Carbon monoxide. aldehydes

## 10.7 Additional information

none

## 11. Toxicological information

### 11.1 Information on toxicological effects

Toxicological data are not available.

#### Acute toxicity

| Substance: | CAS-No.: | Toxicological information |
|------------|----------|---------------------------|
|            |          |                           |

#### Specific symptoms in laboratory animals

Toxicological data are not available.

### 11.2 Irritation and etching

#### Irritant effect on the skin

In the case of the formation of dust.

#### Irritant effect on the eye

Irritating to eyes. In the case of the formation of dust.

#### Irritant effect on the respiratory tract

Inhalation of dust may cause irritation of the respiratory system.

#### Etching

none

### 11.3 Sensitization

Toxicological data are not available.

### 11.4 Repeated dose toxicity

none

### 11.5 CMR effects

#### Carcinogenicity

No indications of human carcinogenicity exist.

#### Mutagenicity

No indications of human germ cell mutagenicity exist.

#### Reproductive toxicity

Toxicological data are not available.

### 11.6 General remarks

No information available.

#### Practical experience

No information available.

#### Other observations

No information available.

#### Additional information

No information available.

## 12. Ecological information

## 12.1 Toxicity

### Eco toxicity

| Substance:          | CAS-No.: | Ecotoxicity                |
|---------------------|----------|----------------------------|
| Polylactic acid PLA |          | EC50/72h/algae < 1100 mg/l |

## 12.2 Persistence and degradability

XXXX The product is biodegradable after extended adaptation.

## 12.3 Bio accumulative potential

No indication of bio-accumulation potential.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

not applicable

## 12.6 Other adverse effects

No information available.

## 12.7 Further ecological information

non-hazardous to water (nwg)

## 12.8 Further details

none

## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Appropriate disposal/Product

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

#### Appropriate disposal/ packaging

Waste disposal according to official state regulations.

#### Control report for waste code/ waste marking according to EAKV

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

**Waste key product:** 20 01 39 - Kunststoffe

**Waste key packaging:**

#### Remark

Waste disposal according to official state regulations.

## 14. Transport information

### 14.1 Overland transport (ADR/RID)

Proper Shipping name



**UN No.:**  
**Label:** **Packing Group:** **Classification code:**  
**Remark:** Not a hazardous material with respect to these transportation regulations.

#### 14.2 Transport by sea (IMDG)

Proper Shipping name

**UN-No.:**  
**Label:** **Packing Group:**  
**EmS-No:** **MFAG:** **Marine pollutant:**  
**Special Provisions:**  
**Remark:** Not a hazardous material with respect to these transportation regulations.

#### 14.3 Air transport (ICAO-TI / IATA-DGR)

Proper Shipping name

**UN/ID-No.:**  
**Label:** **Packing Group:**  
**Remark:** Not a hazardous material with respect to these transportation regulations.

#### 14.4 Mail

Not a hazardous material with respect to these transportation regulations.

---

### 15. Regulatory information

#### 15.1 Labelling

Hazardous component(s) for labelling

##### Special labelling of particular preparations

No label required according to 1999/45/EC, annex V B, No. 9.

#### 15.2 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU-Regulations

**Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC-RL)**  
none

**Regulation (EC) No 2037/2000 on substances that deplete the ozone layer**  
none

**Regulation (EC) No 850/2004 on persistent organic pollutants**  
none

**Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals**  
none

**Regulation (EC) No 648/2004 (Detergents regulation)**  
none

**Restrictions under Title VIII of Regulation (EC) No 1907/2006**  
none

**National regulations**

Moreover, national legislation has to be observed!

**Informations on working limitations**

none

**Major Accidents Ordinance**

No information available.

**Storage class according to VCI**

11 Combustible solids.

**Water Hazard Class according to VwVwS**

0 not a water pollutant

**Technical Instructions on Air Quality Control (TA-Luft)**

No information available.

**Further regulations, limitations and legal requirements**

none

**15.3 Chemical safety assessment**

**For this preparation a chemical safety assessment has been carried out:**

Chemical safety assessments for substances in this mixture were not carried out.

---

**16. Other information****16.1 Wording of the H and R-phrases under paragraph 3**

Regulation (EC) No 1272/2008

-

Directive 67/548/EEC

-

**16.2 Training instructions**

none

**16.3 Recommended restrictions of use**

none

**16.4 Further remarks**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

**16.5 Documentation of changes**

none

**16.6 Data sources**

Data arise from reference works and literature.

**16.7 Key and definition**

none

---

## 17. Appendix

### 17.1 Exposure scenario

-

---