

Fiche de Données de Sécurité

En accord avec la Directive EU 1907/2006 amendée

Nom du produit : PLA

Date de publication : 23-7-2018

Version: 1.6

1. Identification de la substance/préparation et de l'entreprise

- 1.1 Nom :**
PLA
- 1.2 Usage du produit :**
Filament pour imprimante 3D
- 1.3 Fournisseur :**
eMotion Tech
185 av. des États-Uni
31200 Toulouse FRANCE
Téléphone : +33(0)5 82 95 26 62

2. Identification des dangers

- 2.1 Classification de la substance ou mélange**
Non classé selon la Directive 1272/2008/EC.
- 2.2 Éléments d'étiquetage**
Aucun
- 2.3 Autres dangers**
Risques de brûlures au contact du polymère chaud et de vapeurs dangereuses en cas de brûlure.

3. Composition/information sur les ingrédients

- 3.1 Caractéristiques chimiques :**
Mélange de polymères biodégradables basé sur l'acide poly lactique.
- 3.2 N° CAS :**
9051-89-2
- 3.3 Informations complémentaires :**
Aucun ingrédient nocif.

4. Mesures de premiers secours

- 4.1 En cas de contact avec la peau :**
En cas de contact avec le polymère fondu, refroidir immédiatement la peau avec de l'eau froide. Une aide médicale peut être requise pour enlever le matériau collé et pour le traitement des brûlures
- 4.2 Après inhalation :**
Après inhalation de gas de décomposition ou de poussières, placer le patient à l'air frais. Contacter un docteur en cas d'inconfort.
- 4.3 En cas d'ingestion :**
Aucun effet connu. Rincer la bouche avec de l'eau et boire beaucoup d'eau. Contacter un docteur en cas d'inconfort.
- 4.4 En cas de contact oculaire :**
Rincer abondamment les yeux ouverts à l'eau.

5. Mesures de lutte contre l'incendie

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5.1 Moyens d'extinction

Moyens d'extinction appropriés :

Eau pulvérisée, poudre sèche, dioxyde de carbone (CO₂).

Moyens d'extinction inappropriés :

Ne jamais utiliser de jet d'eau concentré, qui pourrait réprendre le feu.

5.2 Dangers particuliers résultant de la substance ou du mélange

Lors d'une combustion incomplète, du monoxyde de carbone, du dioxyde de carbone et des hydrocarbures peuvent être émis.

5.3 Conseil aux pompiers

Mesures de lutte contre l'incendie

Évacuer les personnes non-essentiels. Déplacer les contenants hors zone de feu si vous pouvez le faire sans risque. Maintenir les contenants et alentours au frais en pulvérisant de l'eau. Empêcher les eaux d'extinction du feu de contaminer les eaux de surface ou le réseau d'alimentation souterrain.

Équipement de protection spécial pour les pompiers

Porter un appareil respiratoire autonome et des vêtements de protection

5.4 Remarques :

Les accumulations de poussière peuvent être inflammable.

6. AYg i fYg Yb WUg XY X]gdYfg]cb UWW]XYbh Y`Y**6.1 Df fWU i h]cbg]bX] j]X i Y`Yg z` fe i]dY a Ybh XY`dfchYWh]cb`Yh`dfcWfX i fYg`Xi i f [YbWY**

Évacuer les personnes vers une zone sûre. Ne pas toucher ou marcher sur la surface déversée. Éviter la formation de poussières. Éviter le contact avec la peau, les yeux et les vêtements. Ne pas respirer la poussière. Utiliser un équipement de protection individuel. Veiller à une bonne ventilation. Risque de glissade.

6.2 précautions environnementales

Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water.

6.4 Reference to other sections

Refer to section (8)

7. Handling and storage**7.1 Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe dust. Ensure adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture / Water.

8. Exposure controls/personal protection**8.1 Control parameters**Components with occupational exposure limits

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Contains no substances with occupational exposure limit values.

Biological Limit Values

Not established.

PNEC

The obligation to register acc. to the REACH Regulation (EC) No 1907/2006 does not apply to polymers.

DNEL

The obligation to register acc. to the REACH Regulation (EC) No 1907/2006 does not apply to polymers.

8.2 Exposure controls
Appropriate Engineering Controls

Ensure adequate ventilation, especially in confined areas. Keep at temperatures below 230 °C / 446 °F.

Individual protection measures, such as personal protective equipment

Eye Protection

Tightly fitting safety goggles (EN166).

Hand Protection

Protective gloves (EN374): Butyl rubber. Glove thickness: 0.5 mm. Break through time: >8 hours.

Skin and body protection

Long sleeved clothing.

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment. Recommended Filter Type P2 / FFP2.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Workers must be trained in the proper use and handling of this product as required under applicable regulations.

Environmental exposure controls

The product should not be allowed to enter drains, water courses or the soil

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

Appearance	Solid Filament
Odour	Odourless
Colour	depending on product grade
Odour threshold	Sweet
pH	Not applicable
Melting point	150-170 °C / 302-446 °F
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	flammable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	Ca. 1.1-1.3 g/cm ³
Solubility(ies)	Insoluble
Partition coefficient (n-octanol/water)	Not available

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Auto-ignition temperature	388°C
Decomposition temperature	>250°C
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

10. Stability

10.1 Reactivity: No information available

10.2 Chemical stability:
Stable under recommended storage conditions

10.3 Possibility of hazardous reactions:
No hazardous reactions observed under normal handling and storage conditions

10.4 Conditions to avoid
Temperatures above 230 °C / 446 °F.

10.5 Incompatible materials:
Oxidizing agents, Strong bases

10.6 Hazardous decomposition products
Burning produces obnoxious and toxic fumes Aldehydes, Carbon monoxide (CO), carbon dioxide (CO₂)

11. Toxicological information
11.1 Information on toxicological effects

Acute toxicity:

Ingestion: No known effect.
Skin Contact : No known effect.
Inhalation : No known effect.

Product dust may be irritating to eyes, skin and respiratory system. Resin particles, like other inert materials, are mechanically irritating to eyes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Germ Cell Mutagenicity
Not known to cause heritable genetic damage.

Carcinogenicity
Contains no ingredient listed as a carcinogen.

Reproductive Toxicity
Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.

STOT-single exposure
No known effect.

STOT-repeated exposure
No known effect.

Aspiration Hazard
No known effect.

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12. Ecological information**12.1 Toxicity**

Contains no substances known to be hazardous for the environment.

12.2 Persistence and degradability

Decomposes in contact with water. Hydrolysis product (S-lactic acid): Readily biodegradable

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

No information available..

13. Disposal considerations**13.1 Waste treatment methods**

Waste from residues / unused products

Generation of waste should be minimized, check possibility for recycling. Waste product can be incinerated or dumped together with domestic waste in compliance with local authority requirements.

Contaminated Packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

Product has been classified as being non-dangerous substance according to transport regulations ADR, RID, IMDG, IATA/ICAO

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

No additional data is available

14.6 Special precautions for user

No data available

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

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Not evaluated

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Restrictions on use: None

Other Regulations : No information available

15.2 Chemical Safety Assessment

No information available.

16. Other information

Information is referenced from other manufacturers.

Abbreviations and acronyms

REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances

EC: European Commission

STOT: Specific Target Organ Toxicity

PBT: Persistent, Bioaccumulative, Toxic

vPvB: very Persistent and very Bioaccumulating

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations for the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Dangerous Goods Code

ICAO: International Civil Aviation Organization

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2015/830. Label element according to Regulation (EC) No 1272/2008.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.