

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product: PLA filaments for 3D printing.

Supplier: Environmental Business Products Ltd.
Address: 26 Chase Road, Park Royal, London, NW10 6BB
Information : stephanie.lawes@ebpgroup.com 44 (0) 20 8838 6888

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No1272/2008

The product is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable

Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the “General Classification guideline for preparations of the EU” in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Label elements

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous materials

Special labelling of certain preparations:

Safety data sheet available for professional user on request.

Other hazards

Results of PBT and vPvB assessment

PBT: not applicable

VPvB: not applicable

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Name	Cas No	Content	CLP Classification
Polyactide resin	9051-89-2	>98%	N/A

4 FIRST-AID MEASURES

Inhalation: no fumes will be released from heated material however if respiratory irritation occurs immediately remove a person to fresh air and consult a doctor.

Skin contact: contact with heated material, rinse the skin with water and soap for at least 15 minutes, if symptoms persist, consult a doctor.

Eye contact: contact with material, rinse opened eye for at least 15 minutes with plenty of water, if symptoms persist consult a doctor

Ingestion: drink water as a precaution. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a doctor immediately.

Indication of any immediate medical attention and special treatment needed:

Treatment: first aid, treatment of symptoms.

5 FIRE-FIGHTING MEASURES

Extinguishing media: water, foam, carbon dioxide, dry chemical, Alcohol resistant foams are preferred if available. General purpose synthetic foams (including AFFF) or protein foams may function but much less effectively.

Unsuitable extinguishing agents: N/A.

Special hazards arising from the substance or mixture: do not allow run-off from firefighting to enter drains or water courses.

Combustion products: burning produces toxic fumes Aldehydes carbon monoxide, and carbon dioxide.

Escaping vapours condense with water. Skin burns caused by molten material must be treated. The product is flammable.

Specific extinguishing methods: Product is compatible with standard fire-fighting agents

Advice for fire fighters:

Auto ignition temperature: 388°C. Contaminated extinguishing water must not be discharged into drains.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation. Remove all sources of ignition. Sweep up to prevent slipping hazard.

Environmental precautions:

Do not flush into surface, sewage or ground water.

Methods for cleaning up: clean up promptly by sweeping or vacuum.

7. HANDLING AND STORAGE

Safe Handling:

Avoid contact with skin and eyes.. Recommend for sufficient ventilation at the workplace.

Flammable product store in dry conditions. When in contact with the product do not eat, drink or smoke.

Safe Storage:

Store in original container and protect from excessive heat, direct sunlight, dust and condensed water.

Do not unpack the product until you are ready to use.

Store in a cool dry place 2-50°C

Do not expose to direct sunlight and UV radiation.

If you have exposed the product from the casing for a long period of time, insert the product back into the container with silica gel.

Use within 12 months from date of removing the packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: N/A

Exposure: N/A

Occupational exposure: technical measures general and local ventilation.

Protection respiratory: during inhalation of dust anti air respirator, fire breathing apparatus.

Protection of hands: protective gloves

Eye protection: protective goggles

Skin protection: work clothing, closed shoes

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General information

Appearance /Form/state: solid, natural or coloured filament

Odour: sweet

Odour threshold: data not available

PH: N/A
Flash point: Data not available
Evaporation rate: Data not available
Flammability (solid, gas): Data not available
Density: 1.24g/cm³
Vapour density: Data not available
Relative density: 45 g/cm³ (DIN 51757)
Solubility: Fully miscible
Decomposition temperature: 250°C
Viscosity: Data not available
Explosive properties: Data not available
Oxidation properties: Data not available

10. STABILITY AND REACTIVITY

Reactivity: no known reactive substances if used under conditions of normal use.
Chemical stability: stable under normal environmental conditions during storing and handling.
Possibility of hazardous reactions: Hazardous polymerization does not arise.
Conditions to avoid: heating above the decomposition temperature, 230°C
Incompatible materials: oxidizing agents.
Haz. decomp. products: burning produces toxic fumes, Aldehydes, Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity:
There were no target organ effects noted following ingestion or dermal exposure in animal studies.

Irritation: product dust may be irritating to eyes, skin and respiratory system. Resin particles, like other inert materials.
Corrosion: based on available data the classification criteria are not met.
Carcinogenic: none of the components of this product are listed as carcinogens by IARC, NTP or OSHA .
Mutagenicity: based on available data the classification criteria are not met.
Toxicity for reproduction: no data is available on the product itself.
More information: based on the information available and intended use the product does not have harmful effects on human health.

12. ECOLOGICAL INFORMATION

Toxicity
Acute aquatic toxicity: EC50/72h/algae > 1100mg/L.
Persistence and degradability
Inherently biodegradable under industrial composting conditions.
Bio accumulative potential: not expected to bioconcentrate or bioaccumulate.
Mobility in soil: Data not available.
Results of PBT and vPvB assessment: Data not available.
Other adverse effects: Data not available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Recommendation

Any unused product and contaminated packaging store in labelled containers for waste collection.

The product must not be disposed together with household garbage. Please dispose of according with local waste regulations

14. TRANSPORT INFORMATION

Not regulated for transport of dangerous goods (ADR).

OSN number: Not regulated

Name for shipment OSN: Not regulated

Class/transport hazard class: Not regulated

Packing group: Not regulated

Environmental hazards: no

Special precautions for user: not classed as dangerous goods

15. REGULATORY INFORMATION

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title 111, Section 313.

A chemical safety assessment has been carried out.

16. OTHER INFORMATION

Incorrect processing can cause degradation of the product. Observe maximum recommended processing temperatures.

The information contained in this safety data sheet is provided in accordance with the requirements of the regulations. The product according to normal usage, does not present environmental or health risks.

As the specific conditions of use of this product are outside the supplier's control, the user is responsible for ensuring that requirements of relevant legislation are complied with.

The product should not be used for any purpose other than that for which it is intended. The information contained herein is for health and safety guidance only and does not constitute a specification. It is, to the best of our knowledge and belief, accurate. However since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the end user to comply with all applicable laws and regulations.

Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.

List of R –phrases, hazard statements, safety phrases and / or precautionary statements used in the safety data sheet. N/A