

Date of MSDS – 10/27/2016

According to Regulation (EC) No. 1907/2006 (REACH) in the current version.

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: PLA Mineral filament
TRADE NAME AND SYNONYMS : Fiberlogy PLA Mineral filament
CHEMICAL FAMILY : Biopolymers
COMPANY NAME: FIBERLAB S.A.
ADDRESS : Brzezcie 387, 32-014 Brzezcie, Poland
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EMAIL: office@fiberlogy.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCES: Not applicable.

MIXTURES: Chemical composition:

- Biopolymers
- where required: filling additives
- where required: functional additives

3. HAZARD IDENTIFICATION**CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

According to Regulation (EC) No 1272/2008 [CLP]: No need for classification according to GHS criteria for this product.

LABEL ELEMENTS

According to Regulation (EC) No 1272/2008 [CLP]: The product does not require a hazard warning label in accordance with GHS criteria.

OTHER HAZARDS

According to Regulation (EC) No 1272/2008 [CLP]: No specific dangers known, if the regulations/notes for storage and handling are considered. Generation of dust should be avoided , since this may cause slight irritation of eyes, skin and respiratory system.

4. FIRST AID MEASURES

DESCRIPTION OF FIRST-AID MEASURES

IF INHALED: After inhalation of thermal decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid. If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

CONTACT WITH THE SKIN: After contact with the granules wash thoroughly with soap and water. Areas affected by molten material should be quickly placed under cold running water. Burns caused by molten material require hospital treatment.

CONTACT WITH THE EYES: In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

ON INGESTION: Rinse mouth and then drink plenty of water. If difficulties occur: Seek medical attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

SYMPTOMS: No significant reaction of the human body to the product known.

HAZARDS: Risk of skin burns caused by hot melt at improper processing. Apart from that no hazard is expected under intended use and appropriate handling.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Continuation of first aid measures. Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA: water spray, foam, dry powder, carbon dioxide.

UNSUITABLE EXTINGUISHING MEDIA: water jet.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

IN CASE OF COMBUSTION: formation of carbon monoxide, carbon dioxide, nitrogen oxides, organic decomposition products.

ADVICE FOR FIRE-FIGHTERS: Provide/wear a protective breathing apparatus.

FURTHER INFORMATION: The degree of risk is governed by the burning substance and the fire conditions. In case of combustion evolution of toxic gases/vapours possible. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

Sources of ignition should be kept well clear. Avoid contact with the skin and eyes. Avoid inhalation of dust. If necessary, wear dust masks and safety glasses.

ENVIRONMENTAL PRECAUTIONS

Should not be released into the environment.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Sweep/shovel up. Avoid raising dust. Ensure adequate ventilation. Dispose of absorber material in accordance with regulations.

REFERENCE TO OTHER SECTIONS

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. STORAGE AND HANDLING

PRECAUTIONS FOR SAFE HANDLING

Processing machines must be fitted with local exhaust ventilation. Avoid the formation and deposition of dust. Handle in accordance with good industrial hygiene and safety practice.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

INFORMATION ABOUT FIRE AND EXPLOSION PROTECTION: Make use of general rules of fire prevention.

IN CASE OF FORMATION OF DUST: Take measures to prevent electrostatic charging. Avoid all sources of ignition: heat, sparks, open flame.

STORAGE: Well closed/packed, cool and dry. Protect against moisture and heat. Contamination with other substances must be avoided. Storage together with hazardous substances must be avoided.

SPECIFIC END USES: For the relevant identified uses listed in section 1 the advice mentioned in this section is to be observed.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

CONTROL PARAMETERS: The product does not contain any relevant quantities of materials with occupational exposure limits.

EXPOSURE CONTROLS

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: breathing protection if dusts are formed. Particle filter (Type P1).

HAND PROTECTION: use additional heat protection gloves when handling hot molten masses (EN 407), e. g. made of textile or leather.

EYE PROTECTION: safety glasses with side-shields (frame goggles) (e. g. EN 166).

BODY PROTECTION: body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit .

GENERAL SAFETY AND HYGIENE MEASURES: avoid contact of molten material with skin. Avoid inhalation of dusts/mists/vapours. Eye wash fountains and safety showers must be easily accessible. Handle in accordance with good industrial hygiene and safety practice. Hands and/or face should be washed before breaks and at the end of the shift. Do not eat, drink or smoke at work. Consult the company Industrial Hygienist for recommendations on exposure testing and personal protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

STATE OF AGGREGATION: solid

SHAPE: filament

ODOUR: none to slightly sweet

APPARENT DENSITY: 0.5 - 0.9 g/cm³

SOLUBILITY IN WATER (20 °C): insoluble

OTHER INFORMATION: None.

10. STABILITY AND REACTIVITY

REACTIVITY: No reactions if stored and handled as prescribed/indicated.

CHEMICAL STABILITY: The product is stable if stored and handled as prescribed/indicated.

POSSIBILITY OF HAZARDOUS REACTIONS: The product is stable if stored and handled as prescribed/indicated.

CONDITIONS TO AVOID: Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame. Protect from moisture.

INCOMPATIBLE MATERIALS: Strong oxidizing and reducing agents, strong acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: At prolonged and/or strong thermal stressing above the decomposition temperature dangerous decomposition products can be formed (carbon monoxide, carbon dioxide, nitrogen oxides, organic decomposition products).

11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

There are known neither short- nor long-term toxicological effects.

12. ECOLOGICAL INFORMATION

TOXICITY: Inert natural material, no known deleterious environmental effects.

PERSISTENCE AND DEGRADABILITY: Biodegradability adjustable and depending on the composition of the respective product type.

BIOACCUMULATIVE POTENTIAL: No data available.

MOBILITY IN SOIL: No data available.

RESULTS OF PBT AND VPVB ASSESSMENT: No data available.

OTHER ADVERSE EFFECTS: There are known no harmful effects.

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS: Disposal by composting or incineration is suggested, whereby all national and local regulations must be followed.

14. TRANSPORT REGULATIONS

Not classified as a dangerous good under transport regulations (ADR, RID, ADN, IMDG, ICAO/IATA).

UN NUMBER: Not applicable.

UN PROPER SHIPPING NAME: Not applicable.

TRANSPORT HAZARD CLASSES: Not applicable.

PACKING GROUP: Not applicable.

ENVIRONMENTAL HAZARDS: Not applicable.

SPECIAL PRECAUTIONS FOR USER: None known.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

REGULATION: not evaluated.

SHIPMENT APPROVED: not evaluated.

POLLUTION NAME: not evaluated.

POLLUTION CATEGORY: not evaluated.

SHIP TYPE: not evaluated.

15. REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

WATER HAZARD CLASS (Annex 1 of the VwVwS (Germany)): not hazardous to water.

CHEMICAL SAFETY ASSESSMENT: A safety data sheet for this product is legally not required and is provided by us just as a courtesy to our customers. Product is not classified as hazardous. Chemical safety assessment not required.

16. OTHER INFORMATION

USER RESPONSIBILITY/DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and local regulations remains as the responsibility of the user. This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to develop appropriate work practice guidelines and employee instructional programs for your operation.

The information is provided as a way of a guide to the use of our product and is correct to the best of our knowledge. However, neither Fiberlab S.A. nor its subsidiaries can offer any guarantee as to its accuracy or exhaustiveness. All chemicals may present unforeseen risks and should be used with caution. We can not guarantee that the risks referred to above are the only risks present. The final choice of the application of a product is thus the sole responsibility of the user.