

Product information

Name of product:	Polypropylene reinforced with industrial hemp fiber (Cannabis Sativa).
Trade name of product:	Trifilon BioLite AP21, Trifilon BioLite AP23.
Manufacturer:	Trifilon AB, St. Eriksplan 1,113 20 Stockholm, Sweden.
Emergency contact:	+46 (0)76 414 0923

1. Hazard identification

The material in the molten state may cause burns when in contact with skin.
Building of electrostatic charges when used.
Decomposition of natural fibers at processing temperatures higher than 200°C.
Steam produced during melt processing may lead to irritation to eyes and respiratory tract.
The material is not classified as hazardous.

2. Components

The components of the compound are as follows:
Polypropylene-ethylene co-polymer (CAS No. 9010-79-1 1)
Natural-fiber (CAS No. NA)

3. First-aid information

If in room temperature, the material is neither hazardous nor toxic.
Consult medical authorities in case of oral consumption and physical contact in molten state.
Rinse eyes well if the material comes into contact with eyes.
In case of excessive inhalation of working steam while processing at temperatures higher than 200°C, the person must be taken to an environment with fresh air. The fumes are not toxic. Seek medical attention if necessary.

4. Firefighting measures

In case of fire, the following extinguishing agents may be used:

- 1) Foam
- 2) Water spray
- 3) Carbon dioxide

Use of breathing apparatus is mandatory.
Heat value: 9400 – 12000 kcal/kg.

5. Accidental release measures

No specific safety measures apart from those mentioned under point 6. Personal protection information.
No specific measures needed for environmental protection.
In case of small or large spills, it is suggested that the material is safely disposed of.
Granulates must be collected from work floor as they might cause danger of slipping.

6. Personal protection information

Heat resistant gloves must be used during processing (attention must be paid for the breakthrough time of the material).
Safety goggles are recommended during processing.
Working overalls are recommended.
No smoking during processing of the material.
Vapour collection systems must be used to collect the vapours created during processing.

7. Handling and Storage Information

No specific care needs to be taken if handled at room temperatures.
When material is being elevated to melting temperatures, gases might develop forming propylene, ethylene, hemicellulose, lignin, solvent residues and traces of formaldehyde and acryl aldehyde.
Appropriate ventilation must be provided in the area of processing.
Product must be stored in areas which prevent build up static electricity.
Open flames must be prohibited at the area of storage.
Product must be stored in bags, containers or large cartons.
Product must be protected from direct sunlight.
Material must be stored in dry conditions.

8. Physical and Chemical properties

Density: 1.0 g/cc -1.33 g/cc.
Form: Granulate.
Colour: Light to dark brown.
Odour: Odourless to slight odour of natural fiber.
Melting range: 140 °C to 170 °C.
Auto Ignition temperature: > 400°C.
Solubility: Insoluble in water.
Decomposition: Parts of the product decompose at temperatures above 240°C.
Hazardous reactions: No hazardous reactions are known.

9. Ecological Information

The product is majorly non-biodegradable.
The product is non-toxic.
Lighter grades of the material shall float on water.

10. Toxicological Information

The product has no toxic effects while used as per specifications.
No acute toxicity is observed.
No irritant effect on eyes and skin.

11. Disposal Information

Disposal in the form of incineration or land fill must be done in accordance with local legislations.
In case of unclean packaging, it must be emptied completely.
The product must be recycled if possible.

12. Transport Information

According to international guidelines which regulate land, air and sea transport, the material is classified as not dangerous.

13. Processing Information

During processing at recommended temperatures, user may observe some vapour release marks on the tooling, these can be cleaned from the mould by a commercially available surface cleaner.

14. Other Information

The information supplied in the document is based on currently available information. Information contained in this material safety datasheet shall not be interpreted as a warranty for specific product characteristics. Trifilon AB does not assume responsibility for inappropriate processing, handling or storage of the product by distributors and/or users of the product.