

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Commercial name:	ALFATEIKO CF (all colours)
Material description:	Linear PPS for 3D printing, carbon fiber reinforced, impact modified.

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

Industrial production of moulded plastic articles

1.3. Details of the supplier of the safety data sheet

Supplier:	Maip Compounding srl
Address:	Strada Caffadio 24, 10036, Settimo Torinese, Torino
Email:	info@maipsrl.com

1.4. Emergency telephone number:

Tel. 011/8965833

Available only during working time: from 8.30 am to 12.30 am; from 1.30 pm to 5.30 pm

From Monday to Friday

2. HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

No classification in accordance with the Regulation (EC) No. 1272/2008 and S.M.I.

2.2. Label elements

No labelling necessary in accordance with the Regulation (EC) No. 1272/2008 and S.M.I.

Dangerous symbol:	—
Warnings:	—
Hazards identification:	—
Safety advice:	—

2.3. Other hazards

Based on available information, the product is not dangerous.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Type of product: Mixture

3.2. Mixtures

- **PPS (Polyphenylene sulfide)**
- **Carbon fiber**
- **Additives**
- **Coloured pigments**

Based on available information this product does not contain any high amount of dangerous ingredients to be reported in this section in accordance with the Regulation EC 1272/2008

4. FIRST AID MEASURES

4.1. Description of first aid measures

4.1.1. Eye contact

- Solid product: remove the contact lenses if worn, wash with water in order to remove all the particles inside the eye; in case of irritation, contact a doctor
- Melt product: wash the eye and carry immediately the person to the hospital

4.1.2. Skin contact

- Solid product: no relevant risk in case of contact with product
- Melted product: Cool immediately with plenty of water. Do not remove product crusts which may have formed neither forcibly nor by applying any solvents to the skin involved. To obtain treatment for possible burns, and appropriate skin care, seek medical advice immediately.

4.1.3. Inhalation

- Solid product: it is practically impossible to inhale the substance
- Inhalation of decomposing products/substances: bring the person in a ventilated area (possibly outside) and contact a doctor

4.1.4. Ingestion

- In case of accidental ingestion: wash the mouth and drink a lot of water and if it is possible cause vomiting; contact a doctor if necessary

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

None.

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

None.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Sprayed water jet, extinguishing powder, Carbon dioxide (CO₂), Foam, Dry chemical

Not suitable extinguishing media: none

5.2. Special hazards arising from the substance or mixture

In case of burning don't inhale the gasses made by the combustion.

Substances made by the combustion:

- Carbon dioxide
- Carbon monoxide
- Nitrogen oxide

5.3. Advice for fire-fighters :

Firemen must wear self-contained breathing apparatus.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

6. ACCIDENTAL RELEASE MEASURE**6.1. Personal precautions, protective equipment and emergency procedures****For those who don't directly intervene:**

Leave the area avoiding the contact with the product

For those who directly intervene:

Avoid any inhalation or ingestion of the product

Keep the product away from ignition sources

Wear all the individual protection devices (gloves and protective clothing)

Remove the product in order to avoid any accident (slips)

6.2. Environment precaution and reclamation methods

Remove the product in order to avoid any ground or underground pollution

Do not flush into surface water or sanitary sewer system.

Avoid any dust formation

Utilize appropriate ventilation system

6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment avoiding dust formation

6.4. Reference to other sections

For further disposal measures see section 8 and 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep away from sparks and flames.
Avoid skin, eyes and cloth contact.
Utilize appropriate ventilation system.
Keep away from children.
Keep away from foodstuffs, drinks and tobacco.
Wash hands before breaks and at end of work and use skin-protecting ointment.
Change contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Store the product in a dry area away from heat sources and direct sun exposure.
Store the product at a temperature between 10°C and 35°C.
Keep away from foodstuffs, drinks and tobacco.
Keep away from sparks and flames.

7.3. Specific end use(s)

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

No information on Exposure Limit Values necessary according to EC directive 2006/121/EG

8.2. Exposure controls

professional exposure control: Work in ventilated area

Respiratory protection: In case of dust formation use respiratory equipment (for the correct choice check the Regulation 2016/425/EU)

Hand protection: gloves (for the correct choice check the Regulation 2016/425/EU)

Eye protection: glasses (for the correct choice check the Regulation 2016/425/EU)

Skin protection: Wear suitable protective clothing.(for the correct choice check the Regulation 2016/425/EU)

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Appearance:

Colour:

Odour:

Odour threshold:

solid granular

different according to colouration

odourless

-

pH:	-
Softening point:	285°C
Initial boiling point and boiling range:	-
Flash point:	>300°C
Evaporation rate:	-
Flammability (solid, gas):	-
Upper/lower flammability or explosive limits:	-
Vapour pressure:	-
Vapour density:	-
Density:	1.34 g/cm ³
Solubility:	insoluble in water
Partition coefficient (n-octanol/water):	-
Auto-ignition temperature:	> 400°C
Decomposition temperature:	> 400°C
Viscosity, dynamic:	-
Explosive properties:	-
Oxidising properties:	-

9.2. Other information

The indicated values do not necessarily correspond to the product specification. Please refer to the product information sheet or the technical information sheet for specification data.

10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable in normal conditions.

10.2. Chemical stability

Stable in normal conditions.

Fumes evolved by overheating during improperly processing or by burning may be injurious to health.

10.3. Possibility of hazardous reactions

No hazardous reactions observed.

10.4. Conditions to avoid

Sparks, flames and other ignition sources.

10.5. Incompatible materials

The product react with strong acid and strong bases.

10.6. Hazardous decomposition products

Caused by smouldering and incomplete combustion toxic fumes mainly consisting of CO and CO₂ may be developed.

Under recommended processing conditions small amounts of emissions may occur.

11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

- a) Acute oral/dermal/inhalation toxicity:* No data available
- b) Primary skin/mucosae irritation:* No data available
- c) Sensitisation:* No data available
- d) Subacute, subchronic and prolonged toxicity:* No data available
- e) Carcinogenicity:* No data available
- f) Reproductive toxicity/fertility:* No data available
- g) Specific target organ toxicity (STOT) — single exposure;* No data available
- h) Specific target organ toxicity (STOT) — repeated exposure;* No data available
- i) Aspiration toxicity.* No data available

Additional information

According to our experience and information the product has no harmful effects on health if properly handled.

12. ECOLOGICAL INFORMATION**12.1. Toxicity**

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

The product is practically insoluble in water. In view of its consistency and insolubility in water, no ecological problems are to be expected if the product is properly handled. The product is not readily biodegradable

13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the

existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

The product is suitable for mechanical recycling. After appropriate treatment it can be re-melted and reprocessed into new moulded articles. Mechanical recycling is only possible if the material has been selectively retrieved and carefully segregated according to type.

14. TRANSPORT INFORMATION

14.1. UN number

Not dangerous goods

14.2. UN proper shipping name

Not dangerous goods

14.3. Transport hazard class(es)

Not dangerous goods

14.4. Packing group

Not dangerous goods

14.5. Environmental hazards

Not dangerous goods

14.6. Special precautions for users

Not dangerous goods, keep dry.
See section 6 – 8.

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

Not applicable.

15. REGULATORY INFORMATION

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

UE Legislation: not dangerous good in accordance with the directive Reg (EC) 1907/2006 and/or Reg (EC) 1272/2008.

National regulation: Follow the national and/or regional norms or any other relevant measure.

15.2. Chemical Safety Assessment

Not applicable.

16. OTHER INFORMATION

User notes

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.

The Safety Data Sheet is revised in accordance with the Regulation 2015/830/EU