

# Safety Data Sheet

**Material name:** FPC  
In Compliance with Regulation (EG) 1907/2006 (REACH) as Amended

## **SECTION 1: Identification of the substances/mixture and of the company/undertaking**

### **1.1 Product identifiers**

Product name: FPC

### **1.2 Recommended uses of the mixture and restricted uses**

Identified uses: Additive manufacturing

Uses advised against: None known

### **1.3 Details of the supplier of the safety data sheet:**

Company: iSQUARED AG  
Kreuzlingerstrasse 5  
CH-8547 Lengwil, Switzerland

Telephone: CH: +41 (0) 71 532 99 - 00

E-mail address: [info@isquared.eu.com](mailto:info@isquared.eu.com)

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture according to (EG) No. 1272/ 2008 [GHS]:**

The substance is classified as not hazardous according to (EG) Nr. 1272/2008

### **2.2 Label Elements:**

The substance is classified as not hazardous according to (EG) Nr. 1272/2008

### **2.3 Other Hazards:**

None known

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**SECTION 3: Composition/information on ingredients****3.1 Composition**

The material consists of polycarbonate.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Immediate medical attention is recommend.

**If inhaled**

If breathed in, remove material from respiratory system. Move person into fresh air. If not breathing, give artificial respiration. If symptoms occure, seek medical attention immediately

**In case of skin contact**

In Case of contact with molten material apply cold water immediately. Do not try to remove any material from the wound. Seek medical attention.

**In case of eye contact**

Keep eye wide open and rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention.

**SECTION 5: Firefighting measures****5.1 Extinguishing media:****Suitable extinguishing media**

Use extinguishing agent suitable for surrounding fire. Use alcohol-resistant foam, dry chemical like sodium bicarbonate or carbon dioxide.

**Unsuitable extinguishing media**

None known

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting and full firefighting turnout gear.

**5.4 Further information**

The substance is not sensitvie to mechanical impact or static discharge.

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## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Small amounts can be disposed of as household waste.

### **6.2 Environmental precautions**

Prevent improper wasteremoval.

### **6.3 Secondary hazards**

Dust caused by processing may be flammable.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Prevent contact to molten material. If dust may occure, use suitable eye and breathing protection.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in cool and dry place.

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Exposure limit values**

General product information: No occupational exposure limits (PEL/TWA) have been established for this product.

**Derived No Effect Level (DNEL)**

No information available

**Predicted No Effect Concentration**

No information available

### **8.2 Exposure Controls**

#### **Appropriate engineering controls**

If dust is generated during post processing, provide exhaust ventilation.

#### **Personal protective equipment Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Respiratory protection**

No protective equipment is needed under normal use conditoin. If exposure limits are exceeded or irritation of the respiratory system is observed, ventilation and evacuation may be required.

#### **Control of environmental exposure**

No information available.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

a) Appearance	solid
b) Colour	see label
c) Odour	No data available
d) Odour Threshold	No data available
e) pH	No data available
f) Melting point/freezing point	No data available
g) Initial boiling point and boiling range	No data available
h) Flash point	No data available
i) Evaporation rate	No data available
j) Flammability (solid, gas)	No data available
k) Upper/lower flammability or explosive limits	No data available
l) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Heating may cause a fire.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

None under normal processing conditions.

**10.4 Conditions to avoid**

Excessive heat

**10.5 Incompatible materials**

Strong oxidising agents and strong bases.

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## 10.6 Hazardous decomposition products

Thermal decomposition products: Combustion: carbon oxides, nitrous oxides.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

Inhalation: Specific test data for the substance or mixture is not available.

Eye contact: Specific test data for the substance or mixture is not available.

Skin contact: Specific test data for the substance or mixture is not available.

Ingestion: Specific test data for the substance or mixture is not available.

#### Delayed and chronic effects

Inhalation: Specific test data for the substance or mixture is not available.

Eye contact: Specific test data for the substance or mixture is not available.

Skin contact: Specific test data for the substance or mixture is not available.

Ingestion: Specific test data for the substance or mixture is not available.

## **SECTION 12: Ecological information**

### 12.1 Ecotoxicity

The environmental impact of this product has not been fully investigated.

### 12.2 Persistence and degradability

No information available for product

### 12.3 Bioaccumulative potential

Not likely to bioaccumulate.

### 12.4 Mobility in soil

No information available for product

### 12.5 Results of PBT and vPvB assessment

No information available for product

### 12.6 Other adverse effects

No information available for product

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**13.2 Additional information**

Prior to disposal iSQUARED recommends consulting an approved waste disposal firm to ensure regulatory compliance.

**SECTION 14: Transport information****DOT (US)**

Non-hazardous for transportation.

**IATA**

Non-hazardous for transportation.

**IMDG**

Non-hazardous for transportation.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU – REACH (1907/2006) – Annex XIV List of Substances Subjected to Authorisation**

No components of this materials are listed.

**EU – REACH (1907/2006) – Article 59(1) Candidate List of Substances for Eventual Inclusion in Annex XIV**

No components of this materials are listed.

**EU – REACH (1907/2006) – Annex XVII Restrictions of Certain Dangerous Substances, Mixtures and Articles**

No components of this materials are listed.

**Denmark Regulations****Environmental Protection Agency List of Undesirable Substances** No components of this materials are listed.

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**SECTION 16: Other information****Key/Legend**

DOT (US) – US Department of Transportation; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; ELINCS - European List of Notified Chemical Substances; EN – European Standard; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); NIOSH - National Institute for Occupational Safety and Health; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006; STOT – Specific Target Organ Toxicity; TWA - Time Weighted Average

**Read the MSDS before handling the product.**

DISCLAIMER OF LIABILITY: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. iSQUARED Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.