

# XECARB™ 6-C30-D11

## Material safety data sheet

Complying the (CE) 1907/2006 (REACH) regulation

Version 1.0

Revision Date 11.12.2012

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### 1• Product/preparation and Company/Undertaking identification

#### Product information

Commercial product code : XECARB™ 6-C30-D11  
Application : Manufacturing of plastic molded parts

Company  
Xenia S.r.l.  
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### 2• Hazards identification

The product is not classified as dangerous for health and environment, in accordance with Community Directives 2006/121/CE and successive modifications in force and with the resulting National Directives.

### 3• Composition/information on ingredients

**Chemical description of the product (REACH)** : Carbon fiber reinforced thermoplastic polyurethane

#### Substance / product identification

TPU: CAS no. 9018-04-6  
Fibra carbonio: CAS no. 7440-44-0

To the best of the up-to-date supplier's knowledge, this product does not contain any hazardous ingredient in quantities requiring reporting in this section, according to the European and National regulations.

### 4• First aid measures

#### Emergency procedures

**Inhalation:** If breathed in, move person into fresh air. Administer oxygen if respiration is difficult. In case of respiratory arrest, carry out artificial respiration. Obtain medical attention.

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<b>Skin contact:</b>	In case of contact with melted mass, wash immediately with cold water. Do not remove solidified product off the skin. For skin cleaning and burning care get medical attention. If skin irritations due to powder or pellets develop, accurately wash the concerned zone with water without scrubbing.
<b>Eye contact:</b>	Wash with flowing water for several minutes keeping eyelids open. If symptoms persist seek medical advice.
<b>Ingestion:</b>	If swallowed, seek medical advice immediately.

### 5• Fire-fighting measures

**Suitable extinguishing media:** Use water spray, fire powder, carbon dioxide (CO<sub>2</sub>), foam and dry chemical.

**Specific risks due to the substance or to its combustion products**

In case of fire, the following substances can be released: hydrogen cyanide (HCN), carbon monoxide (CO), toxic or irritant substances.

Thermal decomposition produces obnoxious and toxic fumes.

Risks of fire diffusion can occur through the gaseous combustion products cook-off. Therefore, the melted product must be water-cooled.

In case of fire and/or explosion do not inhale fumes.

During the fire-fighting measures, wear a self-contained breathing apparatus.

Do not allow run-off from fire-fighting to enter soils, phreatic zone or water courses.

**Exposure risks:** No specific fire or explosion danger. In case of fire, evacuate all the people immediately. Not trained personnel must avoid any attempt of fire-fighting involving hazardous operations.

**Protective equipment for firefighters:** Firefighters must wear suitable protective equipment and a full-face positive-pressure self-contained breathing apparatus (SCBA).

### 6• Accidental release measures

**Personal precautions:** Granular solid. Risk of sliding on the spilled product. Wear protective equipment. Ensure adequate ventilation. Expel third person.

**Environmental precautions:** Do not discharge flushing out in surface runoff or sewage systems.

**Methods Of Clean Up:** In case of spillage, mechanically collect up. Avoid powder development. Sweep and transfer in suitable disposal containers.

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### 7• Handling and storage

#### Handling:

Be sure to not exceed the limits reported in section 8, working in a well-ventilated or aspiration system equipped area. In case of mechanical working use adequate dusts aspiration system.

During re-pelletization avoid powder development.

Avoid vapors and powders inhalation.

Wash carefully hands, arms and face at the end of workday or before lunch if handled chemical substances. Do not eat, drink or smoke when using this product.

#### Storage:

Store in a dry place and keep away from heat and fire.

Storage temperature: < 40 °C

#### Storage materials:

Use the original container or aluminum-covered bags.

### 8• Exposure controls / personal protection

#### Components whose levels must be kept under control in workplaces

During product manufacturing and in particular during the thermal process, the regulations relevant to the following substances must be observed:

Substance	Typology	Value	Base	Observations
General limit for powders	TWA	10 mg/m <sup>3</sup>	OEL (IT)	Inhalable fraction
General limit for powders	TWA	3 mg/m <sup>3</sup>	OEL (IT)	Breathable fraction

#### Individual protective equipment

##### Respiratory protection:

In case of dust development, employ an anti-powder P1 air respirator according to DIN EN 143.

##### Hands protection:

Materials suitable for protective gloves, E 374-3, made of polyvinylchloride (>=0,5 mm). change contaminated and/or damaged gloves.

##### Eye protection:

Safety glasses with lateral protection.

##### Skin and body protection:

Suitable protective clothing.

##### Hygiene recommendations:

Wash hands, harms and face, if in contact with chemical products, before breaks and at the end of workday. Do not eat, drink or smoke when using this product.

Store separately the working clothing and change them when dirty.

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### Environmental exposure controls

#### Technical measures:

The emission from ventilation apparatus or working processes should be controlled in order to keep them in conformity with the Environmental protection legislative directives. Sometimes, it could be necessary to carry out exhaust fumes scrubbing, filters equipment or technical modifications to the process apparatus in order to reduce emissions to acceptable levels.

## 9• Physical and chemical properties

### General information

<b>Physical form:</b>	Granular solid
<b>Color:</b>	Different according to the given coloring
<b>Odor:</b>	odorless
<b>Softening point:</b>	> 120°C
<b>Melting point:</b>	210 - 220 °C
<b>Flammability temperature:</b>	Not applicable
<b>Auto-ignition:</b>	Not applicable
<b>Explosion hazard:</b>	Not explosive
<b>Density at 20°C:</b>	1,25 – 1,35 g/cm <sup>3</sup>
<b>Apparent density at 20°C:</b>	> 0,5 - 0,7 g/cm <sup>3</sup>
<b>Solubility in/ miscibility with water:</b>	Insoluble
<b>Vapor pressure:</b>	Not applicable
<b>Dynamic viscosity:</b>	Not applicable
<b>pH:</b>	Not applicable
<b>Ignition temperature:</b>	> 210°C
<b>Auto-ignition temperature:</b>	Not applicable
<b>Explosion limit:</b>	Not applicable

## 10• Stability and reactivity

<b>Stability:</b>	Stable
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**Thermal decomposition/ Conditions to avoid** If employed under instructions, the product does not undergo decomposition. Avoid temperatures > 230 °C (thermal decomposition onset temperature).

**Hazardous reactions:**

No hazardous reactions are known.

**Hazardous decomposition products:**

Burning could produce carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), nitriles, aldehydes, ammonia (NH<sub>3</sub>), hydrogen cyanide (HCN), aliphatic and aromatic hydrocarbons, cyclopentanone.

### 11• Toxicological information

**Potential acute effects on health**

**Skin contact:**

No significant effects or critical risks are known. Rarely, after prolonged contact of bare skin with fiber-reinforced plastic rough surfaces, mild skin irritation could appear. The contact with melted product can cause burns.

If the recommended working conditions are followed, low amounts of substances (i.e. residue monomers, solvents, degradation products) could be emitted. Presuming a correct usage, on the basis of our experience and knowledge, the product does not show harmful effects on health.

### 12• Ecological information

The product is not water soluble. Due to its consistency and water insolubility, no eco-toxicological issues are expected, presuming a correct usage. The product is not easily biodegradable.

### 13• Disposal considerations

**Waste disposal method:**

The product is suitable to be recycled. The product can be disposed in proper incinerators equipped with pollution-control systems, according to the local and national regulations.

**Hazardous wastes:**

To the best of the supplier's knowledge, this product does not fall within the hazardous products reported in the European Directive UE91/689/EC.

**European Waste Catalogue:**

**07.02.13 Plastic wastes**

### 14• Transportation information

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<b>ADR/RID:</b>	Not regulated
<b>IMDG:</b>	Not regulated
<b>IATA:</b>	Not regulated

Not classified as dangerous for conveyance.  
Prevent moisture contamination.

### 15• Regulatory information

<b>European Directives Classification:</b>	According to the European directives, this product is not classified as dangerous.
<b>Hazard statement for water:</b>	Generally not dangerous

### 16• Other information

The information provided in this Safety Data Sheet is correct to the best of our product knowledge at the date of its publication. The information given is designed only as a guidance for safe use, processing, storage, transportation and disposal of the product. It 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.