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SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Identifier

Polycarbonate (PC)

Relevant identified uses

Semi-finished material for the production of plastic products.

Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Classification:

Not classified as per regulation (EC) no. 1272/2008.

Directives 67/548/EEC or 1999/45/EC

Not classified as per directives 67/548/EEC or 1999/45/EC

Label elements

Regulation (EC) No. 1272/2008

No labelling as per regulation (EC) no. 1272/2008.

Directives 67/548/EEC or 1999/45/EC

No labelling as per directives 67/548/EEC or 1999/45/EC.

SECTION 3: Composition/information on ingredients

Mixture: Bisphenol A-based polycarbonate mixture

SECTION 4: First aid measures

Description of First aid measures

General advice: No special first aid measures necessary.

SECTION 5: Fire fighting measures**Extinguishing media:**

Water spray jet, dry extinguishing agent, carbon dioxide (CO₂), fire extinguishing foam.

Special hazards arising from the substance or mixture

The combustion products carbon dioxide, carbon monoxide and nitrogen oxide result from burning. Do not inhale explosion fumes and fire gases.

Advice for fire-fighters

Independent respiratory protection is obligatory during fire fighting.
Do not allow contaminated fire water to enter soil/surface water/ground water.

SECTION 6: Accidental release measures**Methods and material for containment and cleaning up**

Collect mechanically.

SECTION 7: Handling and storage**Precautions for safe handling**

Effective suction of dust has to be provided during mechanical processing.

Effective exhaust has to be provided on the machines during thermal processing or laser processing.

Keep away from foodstuff, drinks and tobacco. Wash hands before any break and at end of work and use a hand protection lotion. Change contaminated clothing.

Conditions for safe storage, including any incompatibilities

No special conditions for storage required.

Storage category (TRGS 510): 11: Flammable solid

SECTION 8: Exposure controls/personal protection**Control parameters****Limitation and control of exposition****Respiratory protection**

Use a filter unit with filter type „particle filter P1“ as per EN 143 in case of dust formation.

Hand protection and other protection measures

Appropriate materials for protection gloves, EN 374:

Polyvinyl chloride - PVC: Thickness $\geq 0,5$ mm

Recommendation: Dispose of contaminated gloves.

Eye / Face protection

Wear appropriate protection goggles/face protection.

Skin protection

Wear appropriate protective clothing during work.

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

Physical state / form:	solid, sheet
Appearance / odour:	Different colours as per colouring, no odour
Sintering point:	150 – 160 °C
Melting point:	220 – 230 °C
Flammability (solid / gas):	> 320 °C
Flash point:	> 450 °C
Auto-ignition temperature:	> 450 °C
Solubility (water)	insoluble
Decomposition temperature:	>=380 °C
Density:	ca. 1,2 g/cm ³ at 20°C; DIN 53479

Other information

Viscosity, dynamic: :	N/A
Dust explosion class:	N/A

SECTION 10: Stability and reactivity**Chemical stability**

Thermal decomposition, like in case of fire or excessive heat due to inappropriate processing, can generate hazard gases and vapours.

Possibility of hazardous reactions

No hazard reactions known when processed in accordance with the manufacturer's regulations.

Hazardous decomposition products

Toxic gas mixtures which mainly contain CO and CO₂ generate during smouldering respectively incomplete combustion.

SECTION 11: Toxicological information**Information on toxicological effects**

No toxicological effects are known so far if product is handled appropriately and in compliance with regulations on occupational hygiene.

SECTION 12: Ecological information

No harmful effects to the environment are known.

SECTION 13: Disposal considerations

Disposal under observance of all applicable international, national and local laws, regulations and statutes. At disposal within the EU the respective valid waste key number as per the European waste catalogue has to be used.

13.1 Waste treatment methods

Complete empty packaging materials without any residues can be returned for recycling through the point of acceptance of the existing take-back systems of the chemical industry. Recycling has to be done in accordance with national law and environmental regulations.

The product is suitable for mechanical recycling. It can be melted after rework and be processed to new parts. The mechanical recycling requires a material specific collection and correctly sorted recycling.

SECTION 14: Transport information

ADR/RID No hazardous good
ADN No hazardous good

This classification generally does not apply for transport in a tank ship. If necessary, further information can be demanded at the manufacturer.

IATA No hazardous good
IMDG No hazardous good

Special precautions for the end users:
No hazardous transport good. Keep dry.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Candidate list of substances of very high concern:**

This product does not contain any substances of very high concern as per REACH (regulation (EU) no. 1907/2006, article 57).

Water hazard class:

nhw – not hazardous to water (as per appendix 1 VwVwS)

SECTION 16: Other information

The information given in this safety data sheet is based on our present available experience and only describes the security appearance of the product. It is up to the user to check if the product is suitable for the respective application. All questions regarding warranty and liability for this product are regulated according to our sales conditions unless legal requirements are differing.

Change index

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