

MATERIAL SAFETY DATA SHEET

PC-Penta

(according to Regulation (EU) No. 1907/2006)

1. Chemical product and company identification.

Product Identification: PC-Penta

Use of substance / preparation: Shotblasting media for the cryogenic deflashing of rubber mouldings.

Product Description: Polycarbonate

Manufacturer: Profile Deflashing Compounds Ltd. GB-Ellesmere Port / Cheshire CH66 1ST

Supplier: SIPAL GmbH & Co.KG
Diepke 2
58642 Iserlohn, Germany
Telefon: 0049 2374 937712
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2. Hazardous Identification

Classification of the substance or mixture

Classification (1272/2008/CE):

No classification in accordance with the Directive (EC) No. 1272/2008.

Classification (2006/121/EC, 1999/45/EC):

No classification according to EC Directives 2006/121/EC or 1999/45/EC.

Label elements

Labelling (1272/2008/CE):

No labeling necessary according to the Directive (EC) No. 1272/2008.

Labelling (2006/121/EC, 1999/45/EC):

No labelling is required for this material by the Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP 4), in accordance with EC Directives.

3. Composition/information on ingredients.

Polycarbonate based on disphenol A

4. First Aid Measures

In case of skin contact: CONTACT WITH THE HOT MELT: 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.

The following information refers to the handling of the product at room temperature. In case of skin contact wash affected areas thoroughly with soap and plenty of water.



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5. Fire Fighting Measures

Suitable extinguishing media: sprayed water jet, extinguishing powder, Carbon dioxide (CO₂), Foam, Dry chemical

Special hazards arising from the substance or mixture:

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

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 Measures

Personal precautions, protective equipment and emergency procedures: slip hazard!

Methods and material for containment and cleaning up: Use mechanical handling equipment. Avoid dust formation.

Reference to other sections: For further disposal measures see section 13.

7. Handling & Storage

Precautions for safe handling:

Under recommended processing conditions small amounts of residues of monomers and residual solvent may be emitted. Provided good ventilation and/or local exhaust systems are used, the Workplace Exposure Limit(s) stated in section 8 should not be exceeded.

Dust must be removed by effective exhaust ventilation.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at end of work and use skin-protecting ointment. Change contaminated clothing.

Conditions for safe storage, including any incompatibilities:

No special storage conditions required.

Storage class (TRGS 510): 11: Combustible Solids.



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8. Exposure Controls/ Personal Protection.

Substance	CAS-No.	Basis	Type	Value	Ceiling	Remarks
phenol	108-95-2	EH40 WEL	TWA	2 ppm		
phenol	108-95-2	EH40 WEL	Skin			Dermal absorption possible
phenol	108-95-2	EU ELV	TWA	2 ppm 8 mg/m ³		
Substance	CAS-No.	Basis	Type	Value	Ceiling	Remarks
phenol	108-95-2	EU ELV	Skin			Dermal absorption possible
phenol	108-95-2	EU ELV	STEL	4 ppm 16 mg/m ³		
chlorobenzene	108-90-7	EH40 WEL	TWA	1 ppm		
chlorobenzene	108-90-7	EH40 WEL	STEL	3 ppm		
chlorobenzene	108-90-7	EH40 WEL	Skin			Dermal absorption possible
chlorobenzene	108-90-7	EU ELV	TWA	5 ppm 23 mg/m ³		
chlorobenzene	108-90-7	EU ELV	STEL	15 ppm 70 mg/m ³		
2,2-Bis-(4-hydroxyphenyl)-propane (4,4'-Isopropylidenediphenol)	80-05-7	EU ELV	IOELV	10 mg/m ³		inhalable fraction
General limiting value of dust		EH40 WEL	TWA	10 mg/m ³		inhalable fraction
General limiting value of dust		EH40 WEL	TWA	4 mg/m ³		alveolar fraction



Exposure controls

Respiratory protection:

In case of dust formation use respiratory equipment with filter type particle filter P1 according to EN 143.

Hand protection:

Suitable materials for safety gloves; EN 374:

Polyvinyl chloride - PVC (≥ 0.5 mm)

Contaminated and/or damaged gloves must be changed.

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Eye protection:

Wear eye/face protection.

Skin and body protection:

Wear suitable protective clothing.

9. Physical and Chemical Properties.

Colour:	different according to colouration
Form:	granular
Odour:	odourless
Softening point:	130 – 160 °C
Decomposition temperature:	>= 380 °C
Density:	ca. 1.2 – 1.4 g/cm ³
Bulk Density:	600 – 700 kg/m ³
Vapour pressure:	not applicable
Viscosity, dynamic:	not applicable
Water solubility:	practically insoluble
pH:	not applicable
Ignition temperature:	>450 °C
Autoignition temperature:	not applicable
Explosion limits:	not applicable

10. Stability and Reactivity

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

Possibility of hazardous reactions: No hazardous reactions observed.

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

11. Toxicological Information

Under recommended processing conditions small amounts of emissions may occur. The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures.

Substance	CAS-No.	R-phrases(s)
phenol	108-95-2	R68 Possible risk of irreversible effects. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R34 Causes burns.
chlorobenzene	108-90-7	R20 Harmful by inhalation. R38 Irritating to skin.
4-tert-butylphenol	98-54-4	R36/37/38 Irritating to eyes, respiratory system and skin.



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2,2-Bis-(4-hydroxyphenyl)-propane 80-05-7 R62 Possible risk of impaired fertility.
(4,4'-Isopropylidenediphenol)

R37 Irritating to respiratory system.
R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.

Additional information:

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

12. Ecological Information

Do not allow to escape into waterways, wastewater or soil.

Further information on ecology:

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

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

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 remelted 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. Transportation Information

ADR/RID Not dangerous goods
ADN Not dangerous goods

This classification data does not apply to transportation by tanker. If required, additional information can be requested from the manufacturer.

IATA Not dangerous goods
IMDG Not dangerous goods

Other information Not dangerous cargo.
Keep dry.



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15. Regulatory Information

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

Water contaminating class (Germany): nw not water endangering
(in accordance with Annex 1 to the Directive on Water-Hazardous Substances)

16. OTHER INFORMATION

Further information

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.

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