Material Safety Data Sheet

According to REACH Regulation (EC) No. 1907/2006 and CLP Regulation (EC) No. 1272/2008

PCR PP Regranulate

Product Code: 000604

Issue Date: 05.10.2023 Last Revision Date: 26.02. 2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1 Product Identifier	
Trade name	PCR PP Regranulate
Product code	000604
Chemical Nature	Polypropylene (100%PCR)
Components contributing to the hazard	Not relevant
CAS number	9003-07-0
EC number	618-352-4
REACH Registration Number	This substance is exempt from REACH registration under Article 2 (9) of REACH
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified uses	Plastic processing, injection molding, extrusion
Uses advised against	Not suitable for medical implants, direct food contact without specific approval, or applications requiring high chemical resistance.
1.3 Details of the supplier of the safety data sheet	
Company	Sinox Polymers GmbH
Address	Grünenweg 5-7, 28195 Bremen, Germany
Telephone	+49 178 8175 168
Email	inquiries@sinox-polymers.com
1.4 Emergency telephone number	
General number for medical emergency	112
Emergency poison number (for Bremen)	05 51 19 240

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SECTION 2: Hazards identification	
2.1 Classification of the substance or mixture	
According to Regulation (EC) No. 1272/2008 (CLP), the product is **not classified as hazardous**.	
2.2 Label elements	
Hazard pictograms	None
Signal word	None
Hazard statements	Not applicable
Precautionary statements	· P261: Avoid breathing dust or fumes. · P280: Wear protective gloves when handling molten material. · P501: Dispose of contents/container in accordance with local regulations.
2.3 Other hazards	
Dust explosion risk	Fine dust may form explosive mixtures with air. Handling of fines below 125µm may require explosion protection measures.
Thermal hazards:	Vapors and fumes generated at high processing temperatures may cause irritation to eyes, nose, throat, and respiratory tract.

SECTION 3: Composition/information on ingredients	
3.1 Substances	
Substance name	Polypropylene (100% PCR)
CAS number	9003-07-0
EC number	618-352-4
Hazardous impurities	None known

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SECTION 4: First-aid measures	
4.1 Description of first-aid measures	
Inhalation	When fumes of molten material have been inhaled; (1) Move person to fresh air as quickly as possible; (2) rest in half upright position; (3) loosen clothing; (3) keep warm. In case of respiratory problems move person to first aid station for medical treatment.
Skin contact	Any molten material on the skin/burns should be cooled (off) as quickly as possible by means of cold water. Cover the wound with sterile cloth and move person to first aid station or hospital for medical treatment. Attention: never pull off the molten material from the wound.
Eye contact	Rinse eyes immediately with water for at least 15 minutes. If irritation persists, seek medical attention.
Ingestion	No danger of toxicity, this material is biologically inactive.
4.2 Most important symptoms and effects, both acute and delayed	
Inhalation of fumes may cause irritation, headache, nausea.	
Contact with molten polymer may cause burns.	
4.3 Indication of any immediate medical attention and special treatment needed	
No specific antidote known. Treat symptomatically.	

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SECTION 5: Fire-fighting measures	
5.1 Extinguishing media	
Suitable	Water spray, foam, CO_2, dry chemical powder
Unsuitable	High-pressure water jet
5.2 Special hazards arising from the substance or mixture	
Material burns slowly with flaming drips.	
Hazardous decomposition products include carbon monoxide, carbon dioxide and hydrocarbons	
5.3 Advice for firefighters	
Use self-contained breathing apparatus (SCBA) and full protective gear.	

SECTION 6: Accidental release measures
6.1 Personal precautions, protective equipment, and emergency procedures
Avoid dust formation. Ensure adequate ventilation.
6.2 Environmental precautions
Prevent material from entering drains or watercourses.
6.3 Methods and material for containment and cleaning up
Sweep up and place in suitable containers for disposal or recycling.

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SECTION 7: Handling and storage
7.1 Precautions for safe handling
Provide local exhaust ventilation during processing.
Avoid dust generation.

SECTION 8: Exposure controls/ personal protection
8.1 Control parameters
General dust exposure limits: 10 mg/m³ (total dust), 5 mg/m³ (respirable dust).
8.2 Exposure controls
Respiratory protection: Use dust masks when exceeding exposure limits.
Hand protection: Heat-resistant gloves when handling hot material.
Eye protection: Safety glasses with side shields.
Skin protection: Protective clothing as needed.

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SECTION 9: Physical and chemical properties	
Physical state	Solid at 20℃
Odor	Slight waxy
Flashpoint	＞355℃
Color	Natural color, translucent
Form	Granulate
Melt point	160℃
Auto Ignition Temp.	＞360℃
Density	0.9-0.92g/cm3
Decomposition	＞300℃
Solubility in water	Insoluble
Solubility in Other Substance	Partially soluble in xylene, naphthalene at elevated temperatures
Dust explosive properties	
Lower explosion limit	< 10g/m³ air (fines < 125µm)
Dust explosion class (st)	St 1 (fines)
Minimum ignition temperature	440°C

SECTION 10: Stability and reactivity
Reactivity: Stable under normal conditions.
Chemical stability: Stable under recommended storage conditions.
Conditions to avoid: Temperatures above 350°C.
Incompatible materials: Strong oxidizing agents.
Hazardous decomposition products: At high temperatures (>350°C), thermal degradation may release carbon monoxide, carbon dioxide, and low levels of aldehydes and volatile hydrocarbons.

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SECTION 11: Toxicological information	
Acute toxicity	None (LD50 oral rat >5000 mg/kg)
Skin corrosion/irritation	Not classified as irritating. Exposure to decomposition fumes may cause respiratory irritation in sensitive individuals.
Sensitization	No data available.
Carcinogenicity	No evidence of carcinogenicity.

SECTION 12: Ecological information	
Persistence/degradability	very low UV degradability
Bioaccumulative potential	Polypropylene is generally considered non-biodegradable and has a low tendency for bioaccumulation.
Mobility in soil	Low mobility
Ecotoxicity	no indication that this material is being a risk to the environment.
Aquatic toxicity	Insoluble non toxic solid material (no water hazard)

SECTION 13: Disposal Considerations
Dispose of in accordance with local, national, and international regulations.
Recycling is recommended where possible.

SECTION 14: Transport information	
UN number	Not applicable
Transport hazard class	Not regulated
Packing group	Not applicable

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SECTION 15: Regulatory information	
EU Regulations	· This product is not classified as hazardous under CLP Regulation (EC) No. 1272/2008. · Not listed on the REACH SVHC candidate list. Additional national regulations may apply to recycled plastics in specific applications (e.g., food contact materials)

SECTION 16: Other information	
Version	1.1
Changes from last revision	Updated REACH status, clarified decomposition products, expanded ecological information.
Further information	This MSDS is based on available data and does not constitute a guarantee of specific properties.
None of the materials and/or products referenced herein should be used and/or applied in any product, device or material used or for use as human body implant or otherwise within the human body	

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