



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

Product identifier

MAKROLON 9125

Relevant identified uses of the substance or mixture and uses advised against

Use : Production of moulded plastic articles

Details of the supplier of the safety data sheet:

Bayer MaterialScience AG
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SECTION 2: Hazards identification

Classification of the substance or mixture

Regulation (EC) No 1272/2008

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

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

No classification according to EC Directives 67/548/EEC or 1999/45/EC.

Label elements

Regulation (EC) No 1272/2008

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

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

No labeling necessary according to EC Directives 67/548/EEC or 1999/45/EC.

SECTION 3: Composition/information on ingredients

Type of product: Mixture

Polycarbonate based on bisphenol A, glass-fibre reinforced with very small amounts of anti-combustion agents

SECTION 4: First aid measures

Description of 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.

SECTION 5: Firefighting 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.

SECTION 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.

SECTION 7: Handling and 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

SECTION 8: Exposure controls/personal protection

The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures. In our experience the provision of effective fresh-air and exhaust ventilation equipment at the points where vapors may be generated will ensure compliance with the tolerance limits quoted below.

Control parameters

Substance	CAS-No.	Basis	Type	Value	Ceiling Limit Value	Remarks
phenol	108-95-2	TRGS 900	TLV	2 ppm 7,8 mg/m ³		
phenol	108-95-2	TRGS 900	Skin			Dermal absorption possible
phenol	108-95-2	EU ELV	TWA	2 ppm 8 mg/m ³		
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	TRGS 900	TLV	10 ppm 47 mg/m ³	2	Y
chlorobenzene	108-90-7	TRGS 900	STEL CL			Category II: substances with a resorptive effect.
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		
4-tert-butylphenol	98-54-4	TRGS 900	TLV	0,08 ppm 0,5 mg/m ³	2	
4-tert-butylphenol	98-54-4	TRGS 900	Skin			Dermal absorption possible
4-tert-butylphenol	98-54-4	TRGS 900	STEL CL			Category II: substances with a resorptive effect.
2,2-Bis-(4-hydroxyphenyl)-propane (4,4'-Isopropylidenediphenol)	80-05-7	TRGS 900	TLV	5 mg/m ³	1	Y
2,2-Bis-(4-hydroxyphenyl)-propane (4,4'-Isopropylidenediphenol)	80-05-7	TRGS 900	STEL CL			Category I: substances for which the localized effect has an assigned OEL respiratory passages.
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		TRGS 900	TLV	10 mg/m ³	2	inhalable fraction
General limiting value of dust		TRGS 900	TLV	3 mg/m ³	2	alveolar fraction
General limiting value of dust		TRGS 900	STEL CL			Category II: substances with a resorptive effect.

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.

Eye protection:

Wear eye/face protection.

Skin and body protection:

Wear suitable protective clothing.

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

Appearance:	granular
Colour:	different according to colouration
Odour:	odourless
pH:	not applicable
Softening point:	> 130 - 160 °C
Upper/lower flammability or explosive limits:	not applicable
Vapour pressure:	not applicable
Density:	ca. 1,2 - 1,4 g/cm ³
Bulk density:	600 - 700 kg/m ³
Water solubility:	practically insoluble
Auto-ignition temperature:	not applicable
Ignition temperature:	> 450 °C
Decomposition temperature:	>= 380 °C
Viscosity, dynamic:	not applicable

SECTION 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.

SECTION 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	R37/38 Irritating to respiratory system and skin. R41 Risk of serious damage to eyes.

2,2-Bis-(4-hydroxyphenyl
)-propane
(4,4'-Isopropylidenediphe
nol)

80-05-7

R62 Possible risk of impaired fertility.

R62 Possible risk of impaired fertility.

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.

SECTION 12: Ecological information

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

Additional information on ecotoxicology:

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.

SECTION 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.

None disposal into waste water.

SECTION 14: Transport 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

Special precautions for user : Not dangerous cargo.
Keep dry.

SECTION 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****Candidate List of Substances of Very High Concern for Authorisation:**

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

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

SECTION 16: Other information

The safety data sheet is also valid for corresponding MAS... types.

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.