

Version 1.8 Revision Date 08.10.2019 Print Date 09.10.2019

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

1.1 Product identifier

MAKROLON 6557

Material number: 56978678

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

Use

Production of moulded plastic articles

1.3 Details of the supplier of the safety data sheet

Covestro Deutschland AG COV-CTO-HSEQ-PSRA-PSI D-51365 LEVERKUSEN

Tel.: +49 214 6009 4068

e-mail: ProductSafetyEMLA@covestro.com

1.4 Emergency telephone number

In case of emergency: +49 214 30 99300 (Safety Desk) National Chemical Emergency Centre - UK

Tel: +44 1865 407 333

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

2.2 Label elements

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

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Type of product: Mixture

3.2 Mixtures

Polycarbonate

No dangerous ingredients according to REACH-Regulation (EC) No. 1907/2006.

Candidate List of Substances of Very High Concern for Authorisation

This product contains no substances of very high concern in concentrations where an information obligation applies (REACH Regulation (EC) No. 1907/2006, Article 59).

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SECTION 4: First aid measures

4.1 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.

4.2 Most important symptoms and effects, both acute and delayed

Notes to physician: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Therapeutic measures: No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 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.

5.3 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

6.1 Personal precautions, protective equipment and emergency procedures

Granules - slip hazard!

6.2 Environment related measures

Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Use mechanical handling equipment. Avoid dust formation.

6.4 Reference to other sections

For further disposal measures see section 13.

SECTION 7: Handling and storage

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7.1 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.

In case of mechanical processing, 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.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required.

Storage class (TRGS 510): 11: Combustible Solids

7.3 Specific end use(s)No information available.

SECTION 8: Exposure controls/personal protection

UK Workplace Exposure Limits (WEL), per EH40 document (Health & Safety Executive). If no UK value exists, EU exposure limits given where available.

8.1 Control parameters

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.

Substance	CAS-No.	Basis	Туре	Value	Ceiling Limit Value	Remarks
phenol	108-95-2	EH40 WEL				Dermal absorption possible
phenol	108-95-2	EH40 WEL	STEL	4 ppm 16 mg/m3		
phenol	108-95-2	EH40 WEL	TWA	2 ppm 7.8 mg/m3		
phenol	108-95-2	EU ELV	TWA	2 ppm 8 mg/m3		Indicative
phenol	108-95-2	EU ELV				Dermal absorption possible
phenol	108-95-2	EU ELV	STEL	4 ppm 16 mg/m3		Indicative
chlorobenzene	108-90-7	EH40 WEL				Dermal absorption possible
chlorobenzene	108-90-7	EH40 WEL	TWA	1 ppm 4.7 mg/m3		
chlorobenzene	108-90-7	EH40 WEL	STEL	3 ppm 14 mg/m3		
chlorobenzene	108-90-7	EU ELV	TWA	5 ppm 23 mg/m3		Indicative
chlorobenzene	108-90-7	EU ELV	STEL	15 ppm 70 mg/m3		Indicative
2,2-Bis-(4-hydroxyphen yl)-propane (4,4'-Isopropylidenedip henol)	80-05-7	EH40 WEL	TWA	10 mg/m3		
2,2-Bis-(4-hydroxyphen yl)-propane (4,4'-Isopropylidenedip henol)	80-05-7	EU ELV	TWA	2 mg/m3		Indicative
General limiting value of dust		EH40 WEL	TWA	10 mg/m3		inhalable fraction

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General limiting value of	EH40 WEL	TWA		alveolar fraction	
dust			4 mg/m3		

8.2 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.

Eve protection

Wear eye/face protection.

Skin and body protection

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: granular

Colour: different according to colouration

Odour: odourless Odour Threshold: not established pH: not applicable 130 - 160 °C Softening point: Flash point: not established Evaporation rate: not established Flammability: not established Burning number: not established

Upper/lower flammability or

explosive limits:

not applicable

Vapour pressure: not applicable Vapour density: not established Density: ca. 1.2 - 1.4 g/cm3 Bulk density: 600 - 700 kg/m3 Water solubility: practically insoluble Surface tension: not established Partition coefficient not established

(n-octanol/water):

Auto-ignition temperature: not applicable Ignition temperature: > 450 °C >= 380 °C Decomposition temperature: Viscosity, dynamic: not applicable Explosive properties: not established Dust explosion class: not established Oxidising properties: not established

9.2 Other information

The indicated values do not necessarily correspond to the product specification. Please refer to the product information sheet or the technical information sheet for specification data.

SECTION 10: Stability and reactivity

10.1 Reactivity

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This information is not available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

No hazardous reactions observed.

10.4 Conditions to avoid

This information is not available.

10.5 Incompatible materials

This information is not available.

10.6 Hazardous decomposition products

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

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.

phenol

Index-No. 604-001-00-2 CAS-No.: 108-95-2

Classification (1272/2008/CE): Acute Tox. 3 Oral H301 Acute Tox. 3 Inhalative H331 Acute Tox. 3 Dermal H311 Skin Corr. 1B H314 Eye Dam. 1 H318 Muta. 2 H341 STOT RE 2 H373 Aquatic Chronic 2 H411

chlorobenzene

Index-No. 602-033-00-1 CAS-No.: 108-90-7

Classification (1272/2008/CE): Flam. Liq. 3 H226 Acute Tox. 4 Inhalative H332 Skin Irrit. 2 H315

Aquatic Chronic 2 H411

4-tert-butylphenol Index-No. 604-090-00-8 CAS-No.: 98-54-4

Classification (1272/2008/CE): Skin Irrit. 2 H315 Eye Dam. 1 H318 Repr. 2 H361f Aquatic Chronic 1

H410

2,2-Bis-(4-hydroxyphenyl)-propane (4,4'-Isopropylidenediphenol)

CAS-No.: 80-05-7

Classification (1272/2008/CE): Repr. 1B H360F STOT SE 3 Inhalative H335 Eye Dam. 1 H318 Skin

Sens. 1 H317 Aquatic Chronic 2 H411

SECTION 11: Toxicological information

Toxicological studies on the product are not yet available.

11.1 Information on toxicological effects

Acute toxicity, oral

No data available.

Acute toxicity, dermal

No data available.

Acute toxicity, inhalation

No data available.

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Primary skin irritation

No data available.

Primary mucosae irritation

No data available.

Sensitisation

No data available.

Subacute, subchronic and prolonged toxicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity/Fertility

No data available.

Reproductive toxicity/Teratogenicity

No data available.

Genotoxicity in vitro

No data available.

Genotoxicity in vivo

No data available.

STOT evaluation - one-time exposure

No data available.

STOT evaluation - repeated exposure

No data available.

Aspiration toxicity

No data available.

Additional information

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

SECTION 12: Ecological information

Ecotoxicological studies of the product are not available.

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

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

The product is practically insoluble in water. In view of its consistency and insolubility in water, no ecological

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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.

13.1 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.

SECTION 14: Transport information

ADR/RID

14.1 UN number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not dangerous goods
Not dangerous goods
Not dangerous goods
Not dangerous goods

ADN

14.1 UN number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not dangerous goods
Not dangerous goods
Not dangerous goods
Not dangerous goods

Dangerous goods classification for inland waterways tanker by request only.

IATA

14.1 UN number: Not dangerous goods14.2 UN proper shipping name: Not dangerous goods14.3 Transport hazard class(es): Not dangerous goods14.4 Packing group: Not dangerous goods14.5 Environmental hazards: Not dangerous goods

IMDG

14.1 UN number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Marine pollutant
15. Not dangerous goods
16. Not dangerous goods
17. Not dangerous goods
18. Not dangerous goods
19. Not dangerous goods

14.6 Special precautions for user

See section 6 - 8.

Additional information : Not dangerous cargo. Keep dry.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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SECTION 15: Regulatory information

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

Water contaminating class (Germany)

nw not water endangering

Identification number according to AwSV: 766

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance / mixture resp. its components.

SECTION 16: Other information

Full text of the hazard statements of the CLP classification (1272/2008/CE) referred to under sections 2, 3 and 10.

H226 Flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin.	
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H311 Lovic in contact with skin	
1011 TOXIO III CONIGOT WITH SKIII.	
H314 Causes severe skin burns and eye damage.	
H315 Causes skin irritation.	
H317 May cause an allergic skin reaction.	
H318 Causes serious eye damage.	
H331 Toxic if inhaled.	
H332 Harmful if inhaled.	
H335 May cause respiratory irritation.	
H341 Suspected of causing genetic defects.	
H360F May damage fertility.	
H361f Suspected of damaging fertility.	
H373 May cause damage to organs through prolonged or repeated exposure) .
H410 Very toxic to aquatic life with long lasting effects.	
H411 Toxic to aquatic life with long lasting effects.	

8/9

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

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Abbreviations and acronyms

ADN Accord européen relatif au transport international des marchandises

Dangereuses par voie de Navigation intérieure

ADR Accord européen relatif au transport international des marchandises

Dangereuses par Route

ANSI American National Standards Institute

ASTM American Society of Testing and Materials (US)

Acute Toxic Estimate ATE

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen AwSv

Bioconcentration Factor BCF CAS Chemical Abstract Service

CLP Regulation on Classification, Labelling and Packaging of Substances and

Mixtures

CMR Cancerogenic Mutagenic Reprotoxic DIN Deutsches Institut für Normung Derived No-Effect Level **DNEL** Effect Concentration ... % EC...

European Waste Catalogue **EWC**

IATA International Air Transport Association

IBC Intermediate Bulk Container

ICAO International Civil Aviation Organization **IMDG** International Maritime Dangerous Goods IMO International Maritime Organization

ISO International Organization for Standardization **IUPAC** International Union of Pure and Applied Chemistry

Lowest Observable Adverse Effect Level LOAEL

LC... Lethal Concentration, ...%

Lethal Dose, ...% LD...

MARPOL International Convention for the Prevention of Pollution From Ships

No Observed Adverse Effect Level NOAEL No Observed Effect Level/Concentration NOEL/NOEC

OECD Organisation for Economic Co-operation and Development

persistent, bioaccumulative, toxic **PBT PNEC** Predicted No-Effect Concentration

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals RID

Règlement concernant le transport International ferroviaire de

marchandises Dangereuses Specific Target Organ Toxicity

STOT Technische Regeln für Gefahrstoffe **TRGS** vPvB very Persistent, very Bioaccumulative

WGK Wassergefährdungsklasse

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.