

Version 3.0 Revision Date 25.03.2021 Print Date 26.03.2021

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

1.1 Product identifier

MAKROLON 2805 010277

Material number: 00353911

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 51365 Leverkusen

Tel.: +49 214 6009 4068

Email: ProductSafetyEMLA@covestro.com

1.4 Emergency telephone number

+1-703-527-3887 (Chemtrec)

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.

Supplementary hazardous characteristics and labeling elements:

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

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

Hazardous components

titanium dioxide

Concentration [wt.-%]: >= 1 - < 2,5

EC-No.: 236-675-5

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CAS-No.: 13463-67-7

Classification (1272/2008/CE): Carc. 2 Inhalative H351

The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter <= 10 um.

Because the substance listed here is permanently incorporated into the polymer matrix, no danger is expected if the product is properly handled.

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).

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.

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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

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

8.1 Control parameters

Components with workplace control parameters

Substance	CAS-No.	Basis	Туре	Value	Ceiling Limit Value	Remarks
titanium dioxide	13463-67- 7	TRGS 900		1,25 mg/m3		
titanium dioxide	13463-67- 7	TRGS 900		10 mg/m3	2	

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; carbolic acid; monohydroxybenzene; phenylalcohol	108-95-2	EU ELV	TWA	2 ppm 8 mg/m3		Indicative
phenol; carbolic acid; monohydroxybenzene; phenylalcohol	108-95-2	EU ELV				Dermal absorption possible
phenol; carbolic acid; monohydroxybenzene; phenylalcohol	108-95-2	EU ELV	STEL	4 ppm 16 mg/m3		Indicative
phenol; carbolic acid; monohydroxybenzene; phenylalcohol	108-95-2	TRGS 900				Listed.

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phenol; carbolic acid; monohydroxybenzene; phenylalcohol	108-95-2	TRGS 900				Dermal absorption possible
phenol; carbolic acid; monohydroxybenzene; phenylalcohol	108-95-2	TRGS 900		2 ppm 8 mg/m3	2	
phenol; carbolic acid; monohydroxybenzene; phenylalcohol	108-95-2	TRGS 900	STEL CL			Category II: substances with a resorptive effect.
chlorobenzene	108-90-7	TRGS 900				Listed.
chlorobenzene	108-90-7	TRGS 900		5 ppm 23 mg/m3	2	Y
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
chlorobenzene	108-90-7	TRGS 900	STEL CL			Category II: substances with a resorptive effect.
4-tert-butylphenol	98-54-4	TRGS 900				Listed.
4-tert-butylphenol	98-54-4	TRGS 900		0,08 ppm 0,5 mg/m3	2	
4-tert-butylphenol	98-54-4	TRGS 900				Dermal absorption possible
4-tert-butylphenol	98-54-4	TRGS 900	STEL CL			Category II: substances with a resorptive effect.
bisphenol A; 4,4'-isopropylidenediph enol	80-05-7	TRGS 900				Listed.
bisphenol A; 4,4'-isopropylidenediph enol	80-05-7	TRGS 900	STEL CL			Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.
bisphenol A; 4,4'-isopropylidenediph enol	80-05-7	TRGS 900		5 mg/m3	1	Y
bisphenol A; 4,4'-isopropylidenediph enol	80-05-7	EU ELV	TWA	2 mg/m3		Indicative
General limiting value of dust		TRGS 900		10 mg/m3	2	inhalable fraction
General limiting value of dust		TRGS 900		3 mg/m3	2	alveolar fraction
General limiting value of dust		TRGS 900	STEL CL			Category II: substances with a resorptive effect.

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.

Eye 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

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Colour: different according to colouration

Odour: odourless Odour Threshold: not established not applicable Softening point: 130 - 160 °C Flash point: not established Evaporation rate: not established Flammability: not established not established Burning number: Upper/lower flammability or not applicable

explosive limits:

Vapour pressure:

Vapour density:

Density:

Bulk density:

Water solubility:

Surface tension:

Not applicable

not established

600 - 700 kg/m3

practically insoluble
not established

not established

(n-octanol/water):

Auto-ignition temperature: not applicable
Ignition temperature: > 450 °C
Decomposition temperature: >= 380 °C
Heat of combustion: not established
Viscosity, dynamic: not applicable

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.

Explosive properties: not established

Dust explosion class: not established

Oxidising properties: not established

SECTION 10: Stability and reactivity

10.1 Reactivity

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.

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The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures.

phenol; carbolic acid; monohydroxybenzene; phenylalcohol

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

bisphenol A; 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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity, oral

titanium dioxide

LD50 rat, male/female: > 5.000 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Method: OECD Test Guideline 420

Acute toxicity, dermal

titanium dioxide

Study scientifically not justified.

Acute toxicity, inhalation

titanium dioxide

LC50 rat, male/female: > 6,82 mg/l, 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Method: OECD Test Guideline 403

Primary skin irritation

titanium dioxide Species: rabbit Result: slight irritant

Classification: No skin irritation Method: OECD Test Guideline 404

Primary mucosae irritation

titanium dioxide Species: rabbit Result: slight irritant

Classification: No eye irritation Method: OECD Test Guideline 405

Sensitisation

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titanium dioxide

Skin sensitization (local lymph node assay (LLNA)):

Species: Mouse Result: negative

Classification: Does not cause skin sensitization.

Method: OECD Test Guideline 429

Respiratory sensitization Species: Human experience

Result: negative

Classification: Does not cause respiratory sensitization.

Subacute, subchronic and prolonged toxicity

titanium dioxide NOAEL: 962 mg/kg Application Route: Oral Species: rat, male/female

Dose Levels: 0 - 67 - 258 - 962 mg/kg bw/day

Exposure duration: 92 Days Frequency of treatment: daily Method: OECD Test Guideline 408

Carcinogenicity

titanium dioxide

NOAEL (Toxicity): 7.500 mg/kg body weight/day

Species: Mouse, male/female Application Route: Oral

Dose Levels: 0 - 3750 - 7500 mg/kg body weight/day

Exposure duration: 103 week(s) Frequency of treatment: daily

Result: no increase in tumors observed

NOAEL (Toxicity): 2.500 mg/kg body weight/day

Species: rat, male/female Application Route: Oral

Dose Levels: 0 - 1250 - 2500 mg/kg body weight/day

Exposure duration: 103 week(s) Frequency of treatment: daily

Result: no increase in tumors observed

NOAEL (Toxicity): 5 mg/m³ Species: rat, male/female Application Route: Inhalative Dose Levels: 0 - 5 mg/m³ Exposure duration: 24 month(s)

Frequency of treatment: 6 hours/day, 5 days/week

Method: OECD Test Guideline 453 Result: no increase in tumors observed

NOAEL (Toxicity): 10 mg/m³ Species: Mouse, female Application Route: Inhalative Dose Levels: 0 - 10 mg/m³ Exposure duration: 13,5 month(s) Frequency of treatment: 5 times/week Result: no increase in tumors observed

LOAEL (Toxicity): 10 Species: rat, female

Application Route: Inhalative Dose Levels: 0 - 10 mg/m³ Exposure duration: 24 month(s) Frequency of treatment: 5 times/week

Result: positive

Increase in the incidence of tumors.

NOAEL (Toxicity): 50,68 mg/m³ LOAEL (Toxicity): 250,1

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Species: rat, male/female Application Route: Inhalative

Dose Levels: 0 - 10,55 - 50,68 - 250,1 mg/m³

Exposure duration: 24 month(s)

Frequency of treatment: 6 hours/day, 5 days/week

Result: positive

Increase in the incidence of tumors.

NOAEL (Toxicity): 5 mg/m³ Species: rat, male/female Application Route: Inhalative Dose Levels: 0 - 5 mg/m³ Exposure duration: 24 month(s)

Frequency of treatment: 6 hours/day, 5 days/week

Method: OECD Test Guideline 453 Result: no increase in tumors observed

Reproductive toxicity/Fertility

titanium dioxide No data available.

Reproductive toxicity/Developmental Toxicity/Teratogenicity

titanium dioxide

NOAEL (teratogenicity): 1.000 mg/kg NOAEL (maternal): 1.000 mg/kg

NOAEL (developmental toxicity): 1000 mg/kg body weight/day

Species: rat, female Application Route: Oral

Dose Levels: 0 - 100 - 300 - 1000 mg/kg body weight/day

Frequency of treatment: daily Method: OECD Test Guideline 414

Genotoxicity in vitro

titanium dioxide Test type: Ames test

Test system: Salmonella typhimurium Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 471

Test type: Ames test

Test system: Escherichia coli Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 471

Test type: In vitro mammalian cell gene mutation test

Test system: Mouse lymphoma cells Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 476

Test type: Chromosome aberration test in vitro

Metabolic activation: with/without

Result: negative

Method: OECD Test Guideline 473

Genotoxicity in vivo

titanium dioxide

Test type: In vivo micronucleus test

Species: rat, male/female Application Route: intratracheal

Result: negative

STOT evaluation - one-time exposure

titanium dioxide

Based on available data, the classification criteria are not met.

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STOT evaluation - repeated exposure

titanium dioxide

Based on available data, the classification criteria are not met.

Aspiration toxicity

titanium dioxide

Based on available data, the classification criteria are not met.

CMR Assessment

titanium dioxide

Carcinogenicity: Suspected of causing cancer (Carc. 2).

Mutagenicity: Based on available data, the classification criteria are not met. Teratogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity/Fertility: Based on available data, the classification criteria are not met.

Toxicology Assessment

titanium dioxide

Acute effects: Based on available data, the classification criteria are not met. Sensitization: Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Other 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

Acute Fish toxicity

titanium dioxide LC50 > 100 mg/l

Species: Carassius auratus (goldfish)

Exposure duration: 96 h

Method: OECD Test Guideline 203

Chronic Fish toxicity

titanium dioxide NOEC > 100 mg/l

Species: Danio rerio (zebra fish)

Exposure duration: 8 d

Method: OECD Test Guideline 212

Acute toxicity for daphnia

titanium dioxide EC50 > 100 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 48 h

Method: OECD Test Guideline 202

Chronic toxicity to daphnia

titanium dioxide NOEC > 1 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 28 d

Acute toxicity for algae

titanium dioxide EC50 > 10.000 mg/l

Species: Skeletonema costatum (marine diatom)

Exposure duration: 72 h

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> 2 mg/l

Species: Pseudokirchneriella subcapitata (green algae)

Exposure duration: 72 h

Acute bacterial toxicity

titanium dioxide NOEC > 1.000 mg/l Species: activated sludge Exposure duration: 3 h

Method: OECD Test Guideline 209

Ecotoxicology Assessment

titanium dioxide

Acute aquatic toxicity: Based on available data, the classification criteria are not met. Chronic aquatic toxicity: Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Biodegradability

titanium dioxide

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulation

titanium dioxide

Accumulation in aquatic organisms is unlikely.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

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.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

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.

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.

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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
15 Not dangerous goods
16 Not dangerous goods
17 Not dangerous goods
18 Not dangerous goods
19 Not dangerous goods
10 Not dangerous goods
11 Not dangerous goods
12 Not dangerous goods
13 Not dangerous goods
14 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
15 Not dangerous goods
16 Not dangerous goods
17 Not dangerous goods
18 Not dangerous goods
19 Not dangerous goods
10 Not dangerous goods
11 Not dangerous goods
12 Not dangerous goods
13 Not dangerous goods
14 Not dangerous goods

Dangerous goods classification for inland waterways tanker by request only.

IATA

14.1 UN number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
15 Not dangerous goods
16 Not dangerous goods
17 Not dangerous goods
18 Not dangerous goods
19 Not dangerous goods
10 Not dangerous goods
11 Not dangerous goods
12 Not dangerous goods
13 Not dangerous goods
14 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.

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

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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.

Toxic if swallowed. H301 H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

May cause an allergic skin reaction. H317 H318 Causes serious eye damage.

H331 Toxic if inhaled. Harmful if inhaled. H332

H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. Suspected of causing cancer if inhaled. H351

H360F May damage fertility.

H361f Suspected of damaging fertility.

May cause damage to organs through prolonged or repeated exposure. H373

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

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

Abbreviations and acronyms

Accord européen relatif au transport international des marchandises ADN

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)

ATE Acute Toxic Estimate

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen AwSv

BCF Bioconcentration Factor CAS **Chemical Abstract Service**

Regulation on Classification, Labelling and Packaging of Substances and CLP

Mixtures

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

EWC European Waste Catalogue

International Air Transport Association IATA

Intermediate Bulk Container **IBC**

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

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

LOAEL Lowest Observable Adverse Effect Level

Lethal Concentration, ...% LC...

Lethal Dose, ...% LD...

International Convention for the Prevention of Pollution From Ships MARPOL

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

Organisation for Economic Co-operation and Development OECD

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

Registration, Evaluation, Authorisation and Restriction of Chemicals **REACH** Règlement concernant le transport International ferroviaire de RID

marchandises Dangereuses

STOT Specific Target Organ Toxicity Technische Regeln für Gefahrstoffe **TRGS** vPvB very Persistent, very Bioaccumulative

Wassergefährdungsklasse WGK

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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.