

PP B20-04

Version 2.0

Revision Date: 04.04.2024

Former date: 12.04.2023

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

1.1 Product identifier

Trade name : PP B20-04

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

Use of the Substance/Mixture : Raw material for plastics industry

1.3 Details of the supplier of the safety data sheet

Supplier : Borealis AG
Trabrennstrasse 6-8, 1020 Vienna, Austria
Telephone: +43 1 22400 0

E-mail address : sds@borealisgroup.com

1.4 Emergency telephone number

||+1 760 476 3962 (3E), Access code: 336296

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling

EUH210 Safety data sheet available on request.

EUH208 Contains N,N,N,N-tetrakis(4,6-bis(butyl-(N-methyl-2,2,6,6-tetramethyl piperidin-4-yl)amino)triazin-2-yl)-4,7-diazadecane-1,10-diamine, 1,3-propanediamine, N,N"-1,2-ethanediylobis-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

PP B20-04

Version 2.0

Revision Date: 04.04.2024

Former date: 12.04.2023

products with N-butyl-2,2,6,6-tetramethyl-4-piperidinamine, 6,6'-di-tert-butyl-4,4'-thiodi-m-cresol. May produce an allergic reaction.

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The product burns, but is not classified as flammable.
Dust from the product gives a potential risk for dust explosion.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : The product is a polypropylene polymer.
It contains carbon black.
It contains talc.
It contains post-industrial recycled polymer.

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|--|--|---|--------------------------|
| titaniumdioxide | 13463-67-7 236-675-5 01-2119489379-17 | Carc. 2; H351 | >= 10 - < 20 |
| N,N,N,N-tetrakis(4,6-bis(butyl-(N-methyl-2,2,6,6-tetramethyl piperidin-4-yl)amino)triazin-2-yl)-4,7-diazadecane-1,10-diamine | 106990-43-6 401-990-0 613-078-00-1 01-0000015180-83 | Skin Sens. 1; H317 Aquatic Chronic 2; H411 STOT RE 2; H373 | >= 0,25 - < 1 |
| Poly[(N,N"-1,2-ethanediyylbis-1,3-propanediamine)-co-(2,4,6-trichloro-1,3,5-triazine)-co-(N- | 136504-96-6 500-311-6 01-2119917320-51 | Skin Sens. 1; H317 Aquatic Chronic 2; H411 | >= 0,25 - < 1 |

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

PP B20-04

Version 2.0

Revision Date: 04.04.2024

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| | | | |
|--|--|--|-----------------|
| butyl-2,2,6,6-tetramethyl-4-piperidinam | | | |
| bis(2,2,6,6-tetramethyl-4-piperidinyl)decanedioate | 52829-07-9 258-207-9 | Eye Dam. 1; H318 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 2; H411 <hr/> M-Factor (Acute aquatic toxicity): 1 | >= 0,1 - < 0,25 |
| 6,6'-di-tert-butyl-4,4'-thiodi-m-cresol | 96-69-5 202-525-2 01-2119514452-49 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Sens. 1; H317 | >= 0,1 - < 0,25 |
| Substances with a workplace exposure limit : | | | |
| magnesium silicate | 14807-96-6 238-877-9 | | >= 20 - < 30 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- If inhaled : Move to fresh air.
- In case of skin contact : If molten material comes in contact with the skin, cool with plenty of water. DO NOT remove solidified product, as removal could result in severe tissue damage. Obtain medical attention.
- In case of eye contact : Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
- If swallowed : Rinse mouth with water. Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products may give headache or irritation of the respiratory tract.

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PP B20-04

Version 2.0

Revision Date: 04.04.2024

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.
No specific instructions needed.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water in spread jet, dry chemicals, foam or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Principal toxicant in the smoke is carbon monoxide.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
Ensure adequate ventilation.

6.2 Environmental precautions

Should not be released into the environment.

It is recommended to implement systems and practices (such as Operation Clean Sweep®) to prevent accidental release of plastics in to the environment.

6.3 Methods and material for containment and cleaning up

Vacuum or sweep up spill.
All spill of material must be removed immediately to prevent slipping accidents.
Recycle or dispose loose material properly.
Do not flush into surface water or sanitary sewer system.

6.4 Reference to other sections

For personal protection see section 8.
For disposal considerations see section 13.

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PP B20-04

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released.
Provide adequate ventilation.
Local exhaust ventilation may be necessary.
Avoid inhalation of dust and decomposition fumes.
Avoid contact with skin and eyes.
- Advice on protection against fire and explosion : Dust from the product gives a potential risk for dust explosion.
All equipment shall be grounded. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
- Hygiene measures : When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Safety aspects do not require any special precautions in terms of storage.
- Further information on storage stability : Keep in a dry place.

7.3 Specific end use(s)

- Specific use(s) : Raw material for industry

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

For national exposure limit (OEL) values, check country specific safety data sheets.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|--|---------|-----------------|--------------------------|------------|
| N,N,N,N-tetrakis(4,6-bis(butyl-(N-methyl-2,2,6,6-tetramethyl piperidin-4-yl)amino)triazin-2-yl)-4,7-diazadecane-1,10-diamine | Workers | Inhalation | Long-term | 0,36 mg/kg |
| | Workers | Dermal | Long-term | 0,05 mg/kg |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

PP B20-04

Version 2.0

Revision Date: 04.04.2024

Former date: 12.04.2023

| | | | | |
|---|-----------|--------------|----------------------------|----------------|
| | Consumers | Dermal | Long-term | 0,025 mg/kg |
| | Consumers | Oral | Long-term | 0,025 mg/kg |
| 6,6'-di-tert-butyl-4,4'-thiodi-m-cresol | Workers | Skin contact | Long-term systemic effects | 4,2 mg/kg bw/d |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|--|---------------------------|---------------|
| N,N,N,N-tetrakis(4,6-bis(butyl-(N-methyl-2,2,6,6-tetramethyl piperidin-4-yl)amino)triazin-2-yl)-4,7-diazadecane-1,10-diamine | Fresh water | 0,06 mg/l |
| | Marine water | 0,006 mg/l |
| | Fresh water sediment | 28,3 mg/kg |
| 6,6'-di-tert-butyl-4,4'-thiodi-m-cresol | Marine sediment | 2,83 mg/kg |
| | Fresh water | 0,00016 mg/l |
| | Marine water | 0,000016 mg/l |
| | Intermittent use/release | 0,0016 mg/l |
| | Fresh water sediment | 6,52 mg/kg |
| | Marine sediment | 0,652 mg/kg |
| | Soil | 1,3 mg/kg |

8.2 Exposure controls

Engineering measures

Provide adequate ventilation.
Local exhaust ventilation may be necessary.

Personal protective equipment

- Eye protection : Safety glasses
Use eye protection according to EN 166.
- Hand protection
Material : Nitrile rubber
- Remarks : Protective gloves complying with EN 374.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Skin and body protection : Protective clothing
- Respiratory protection : In case of insufficient ventilation: Respirator with ABEK-P3 filter or self-contained breathing apparatus.
In case of dust development use dust mask.
- Protective measures : Appropriate personal protective equipment (PPE) shall be worn in accordance with Regulation (EU) 2016/425.

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PP B20-04

Version 2.0

Revision Date: 04.04.2024

Former date: 12.04.2023

Environmental exposure controls

General advice : Should not be released into the environment.
It is recommended to implement systems and practices (such as Operation Clean Sweep®) to prevent accidental release of plastics in to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : pellets
Colour : black
Odour : slight
Melting point/range : 130 - 170 °C

Boiling range : Decomposes on heating.

Flammability : The product is not flammable.

Upper explosion limit / Upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Flash point : Not applicable, (solid)

Auto-ignition temperature : > 320 °C

pH : Not applicable insoluble

Viscosity
Viscosity, kinematic : No data available

Solubility(ies)
Water solubility : insoluble

Partition coefficient: n-octanol/water : Not applicable
insoluble

Vapour pressure : Not applicable
(solid)

Particle size : 3 - 10 mm
Method: Image analysis (surface-based)

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PP B20-04

Version 2.0

Revision Date: 04.04.2024

Former date: 12.04.2023

9.2 Other information

- Explosives : Not explosive
- Oxidizing properties : The substance or mixture is not classified as oxidizing.
- Evaporation rate : Not applicable (solid)

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

The product is a stable thermoplastic, with no chemical reactivity.

10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Under fire conditions:

Carbon monoxide

During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

PP B20-04

Version 2.0

Revision Date: 04.04.2024

Former date: 12.04.2023

Components:

bis(2,2,6,6-tetramethyl-4-piperidinyloxy)decanedioate:

Acute oral toxicity : LD50 (Rat): 3.700 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,5 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rat): > 3.170 mg/kg

Skin corrosion/irritation

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

Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

Skin sensitisation

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

Respiratory sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Product:

Remarks : 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 $\leq 10 \mu\text{m}$.

Reproductive toxicity

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

STOT - single exposure

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

STOT - repeated exposure

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

Aspiration toxicity

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

PP B20-04

Version 2.0

Revision Date: 04.04.2024

Former date: 12.04.2023

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : The product is not classified as hazardous to human health. Information given is based on data of the components.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Poly[(N,N"-1,2-ethanediylbis-1,3-propanediamine)-co-(2,4,6-trichloro-1,3,5-triazine)-co-(N-butyl-2,2,6,6-tetramethyl-4-piperidinam):

Toxicity to fish : LC50 (zebrafish (Brachydanio rerio)): > 119 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7,3 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (Selenastrum capricornutum (green algae)): 1,2 mg/l
Exposure time: 72 h

bis(2,2,6,6-tetramethyl-4-piperidinyl)decanedioate:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,57 mg/l
Exposure time: 48 h
Test Type: Short term

M-Factor (Short-term (acute) aquatic hazard) : 1

Toxicity to daphnia and other aquatic invertebrates : EC50: 0,96 mg/l
Exposure time: 21 d

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SAFETY DATA SHEET

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PP B20-04

Version 2.0

Revision Date: 04.04.2024

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(Chronic toxicity)

Species: Daphnia magna (Water flea)

6,6'-di-tert-butyl-4,4'-thiodi-m-cresol:

Toxicity to fish : LC50 (fathead minnow (Pimephales promelas)): 0,36 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,16 mg/l
Exposure time: 48 h

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Not readily biodegradable.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Does not accumulate in organisms.

12.4 Mobility in soil

Product:

Mobility : Remarks: Not expected to adsorb on soil.

12.5 Results of PBT and vPvB assessment

Product:

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

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

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SAFETY DATA SHEET

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PP B20-04

Version 2.0

Revision Date: 04.04.2024

Former date: 12.04.2023

Additional ecological information : Should not be released into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of contents/ container to an approved waste disposal plant.
Reuse or recycle if not contaminated.
Check with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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PP B20-04

Version 2.0

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SECTION 15: Regulatory information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

15.2 Chemical safety assessment

no

SECTION 16: Other information

Full text of H-Statements

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H351 : Suspected of causing cancer if inhaled.
H361f : Suspected of damaging fertility.
H373 : May cause damage to organs through prolonged or repeated exposure.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Carc. : Carcinogenicity
Eye Dam. : Serious eye damage
Repr. : Reproductive toxicity
Skin Sens. : Skin sensitisation
STOT RE : Specific target organ toxicity - repeated exposure

Further information

Other information : Issued according to Regulation (EC) No 1907/2006, Annex II, and its amendments.
Changes since the last version are highlighted in the margin.
This version replaces all previous versions.
Issuer : Borealis, Group Product Stewardship
Sources of key data used to : The classification information of components is based on raw

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PP B20-04

Version 2.0

Revision Date: 04.04.2024

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compile the Safety Data
Sheet

material supplier data.

Disclaimer

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