

Hostaperm Blue BT-729-D

Page 1(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

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

1.1. Product identifier

Trade name

Hostaperm Blue BT-729-D

Material number: 107188

Chemical nature: C.I. Pigment Blue 15:1

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

Relevant identified uses of the substance or mixture

Industry sector : Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry
Type of use : Colorant/organic pigment

1.3. Details of the supplier of the safety data sheet

Identification of the company

Heubach Colorants Germany GmbH
Brüningstraße 50
65929 Frankfurt am Main
Telephone no. : +49 69 305 13619

Information about the substance/mixture

Product Stewardship
e-mail: SDS.PI.Europe@clariant.com

1.4. Emergency telephone number

00800-5121 5121 (24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Category 3 H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hostaperm Blue BT-729-D

Page 2(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

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.

Potential dust explosion hazard.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : copper phthalocyanine pigment

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-)	28901-96-4 249-300-5	Eye Dam. 1; H318	>= 3 - < 10
Cetyltrimethyl ammonium chloride	112-02-7 203-928-6	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2,5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Get medical advice/ attention if you feel unwell.

If inhaled : Remove to fresh air.

In case of skin contact : IF ON SKIN: Wash with plenty of soap and water.

Hostaperm Blue BT-729-D

Page 3(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

- In case of eye contact : Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.
- If swallowed : If swallowed do not induce vomiting, seek medical advice and show safety datasheet or label

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No symptoms known currently.
- Risks : No hazards known at this time.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray jet
Foam
- Unsuitable extinguishing media : High volume water jet
Carbon dioxide (CO₂)
Dry powder

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Carbon dioxide (CO₂)
Sulphur oxides
Hydrogen chloride
- Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

5.3 Advice for firefighters

- Special protective equipment for firefighters : Self-contained breathing apparatus
- Further information : Do not disperse powdered product in air.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Wear suitable protective equipment.

Hostaperm Blue BT-729-D

Page 4(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Take up mechanically
Avoid dust formation.
Take measures to prevent the build up of electrostatic charge.
Risk of dust explosion.
Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

Information regarding Safe handling, see chapter 7.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : When used and handled appropriately no special measures are needed
Avoid dust formation.

Advice on protection against fire and explosion : Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations. Keep away sources of ignition. Dust can form an explosive mixture in air.

Hygiene measures : Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before reuse.

Dust explosion class : St1

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep container dry.

Advice on common storage : Do not store with strong oxidizing agents

7.3 Specific end use(s)

Specific use(s) : No further recommendations.

Hostaperm Blue BT-729-D

Page 5(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Substance name	End Use	Exposure routes	Potential health effects	Value
low chlorinated copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, wherein the number of chlorines is more than or equal to 0	Workers	Dermal	Long-term systemic effects	450 mg/kg bw/day
	Remarks:DNEL			
	Workers	Inhalation	Long-term systemic effects	4 mg/m3
	Remarks:DNEL			
	General population	Dermal	Long-term systemic effects	225 mg/kg bw/day
	Remarks:DNEL			
General population	Oral	Long-term systemic effects	45 mg/kg bw/day	
Remarks:DNEL				

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

Substance name	Environmental Compartment	Value
Cetyltrimethyl ammonium chloride CAS-No.: 112-02-7	Fresh water	0,00042 mg/l
	Water (intermittent release)	0,00012 mg/l
	salt water	0,000042 mg/l
	Sewage treatment plant	0,4 mg/l
	Fresh water sediment	68 mg/kg dry weight (d.w.)
	Marine sediment	6,8 mg/kg dry weight (d.w.)
	Soil	0,4 mg/kg dry weight (d.w.)
low chlorinated copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, wherein the number of chlorines is more than or equal to 0	Sewage treatment plant	7,5 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Remarks

: Nitrile rubber gloves. Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Take note of the information given by the producer concerning

Hostaperm Blue BT-729-D

Page 6(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

- Skin and body protection : working clothes
- Respiratory protection : Wear dust mask when handling large quantities
- Protective measures : Observe the usual precautions for handling chemicals.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : powder
- Colour : blue
- Odour : not significant
- Odour Threshold : not required
- Melting point (decomposition) : Applies to pigments - No melting point up to the decomposition temperature.
- Boiling point : Not applicable
- Upper explosion limit / upper flammability limit : not determined
- Lower explosion limit / Lower flammability limit : not determined
- Flash point : Not applicable
- Auto-ignition temperature : not determined
- Decomposition temperature : > 300 °C
closed cup
- pH : 5,5 - 8,5 (20 °C)
- Viscosity
Viscosity, dynamic : Not applicable
- Solubility(ies)
Water solubility : (20 °C)
insoluble
Solubility in other solvents : < 1 g/l
Solvent: 1-octanol
- Partition coefficient: n-octanol/water : not determined

Hostaperm Blue BT-729-D

Page 7(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

Vapour pressure : Not applicable
Density : 1,65 g/cm³
Bulk density : approx. 250 - 350 kg/m³ (20 °C)

9.2 Other information

Oxidizing properties : no data available
Flammable solids
Burning number : 3
Local combustion without spreading
Self-ignition : \geq
230 °C
Dust explosion class : St1
Evaporation rate : Not applicable
Minimum ignition energy : > 1 J
Molecular weight : no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3. "Possibility of hazardous reactions"

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use. Stable

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : not known

10.6 Hazardous decomposition products

When handled and stored appropriately, no dangerous decomposition products are known

SECTION 11: Toxicological information

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

Acute toxicity

Product:

Hostaperm Blue BT-729-D

Page 8(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

- Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method
- Acute inhalation toxicity : Remarks: not tested.
- Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

- Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg
Method: OECD Test Guideline 423
GLP: yes
Assessment: The substance or mixture has no acute oral toxicity
Remarks: No significant adverse effects were reported
- Acute inhalation toxicity : Remarks: no data available
- Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

Cetyltrimethyl ammonium chloride:

- Acute oral toxicity : LD50 (Rat, male and female): 699 mg/kg
Method: OECD Test Guideline 401
GLP: yes
- Acute inhalation toxicity : Remarks: no data available
- Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity
Remarks: not reasonable

Skin corrosion/irritation

Product:

- Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

- Species : reconstructed human epidermis (RhE)
Method : OECD Test Guideline 439
Result : No skin irritation
GLP : yes

Hostaperm Blue BT-729-D

Page 9(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

Cetyltrimethyl ammonium chloride:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive after 1 to 4 hours of exposure
GLP : yes
Remarks : By analogy with a product of similar composition

Serious eye damage/eye irritation

Product:

Species : rabbit eye
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

Species : Bovine cornea
Method : OECD Test Guideline 437
Result : Risk of serious damage to eyes.
GLP : yes

Cetyltrimethyl ammonium chloride:

Species : Rabbit
Method : Other
Result : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Method : OECD Test Guideline 429
Result : non-sensitizing

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Method : OECD Test Guideline 429
Result : Not a skin sensitizer.
GLP : yes

Assessment : Causes serious eye damage.

Cetyltrimethyl ammonium chloride:

Test Type : Buehler Test

Hostaperm Blue BT-729-D

Page 10(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.
GLP : no

Assessment : Harmful if swallowed., Toxic in contact with skin., Causes severe skin burns and eye damage.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Germ cell mutagenicity-
Assessment : No information available.

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro gene mutation study in mammalian cells
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: Other
Result: negative
GLP: No information available.

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: Other
Result: negative
GLP: No information available.

Germ cell mutagenicity-
Assessment : In vitro tests did not show mutagenic effects

Cetyltrimethyl ammonium chloride:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Hostaperm Blue BT-729-D

Page 11(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster fibroblasts
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster fibroblasts
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Genotoxicity in vivo : Remarks: no data available

Germ cell mutagenicity-
Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity

Product:

Carcinogenicity -
Assessment : No information available.

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

Carcinogenicity -
Assessment : No information available.

Cetyltrimethyl ammonium chloride:

Remarks : This information is not available.

Carcinogenicity -
Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

Product:

Reproductive toxicity -
Assessment : No information available.

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

Effects on fertility : Test Type: Fertility
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 0, 100, 300 and 1000 mg / kg
Duration of Single Treatment: 28 d

Hostaperm Blue BT-729-D

Page 12(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

General Toxicity - Parent: NOEL: 1.000 mg/kg body weight
Method: Other
GLP: No information available.

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Cetyltrimethyl ammonium chloride:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (feed)
General Toxicity - Parent: NOAEL: 61 mg/kg body weight
General Toxicity F1: NOAEL: 96 mg/kg body weight
Method: OECD Test Guideline 416
GLP: yes
Remarks: By analogy with a product of similar composition

Effects on foetal development : Test Type: Pre-natal
Species: Rat, female
Strain: Sprague-Dawley
Application Route: Dermal
Dose: 18,75- 37,5- 75 mg/kg bw/day
General Toxicity Maternal: NOAEL: 75 mg/kg body weight
Developmental Toxicity: NOAEL: 75 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Test Type: Pre-natal
Species: Rat, female
Strain: NZW
Application Route: Dermal
Dose: 0-0,5-1,0-2,0 mg/kg bw/day
General Toxicity Maternal: NOAEL: 40 mg/kg body weight
Developmental Toxicity: NOAEL: 40 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure

Product:

Remarks : no data available

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Hostaperm Blue BT-729-D

Page 13(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

Cetyltrimethyl ammonium chloride:

Remarks : no data available

STOT - repeated exposure

Product:

Remarks : no data available

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Cetyltrimethyl ammonium chloride:

Remarks : no data available

Repeated dose toxicity

Product:

Remarks : not tested.

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

Species : Rat, male and female
NOAEL : 1000 mg/kg bw/day
Application Route : oral (gavage)
Exposure time : 30 d
Dose : 0 or 1000 mg/Kg bw/day
Control Group : yes
Method : Other
GLP : No information available.

Cetyltrimethyl ammonium chloride:

Species : Rat, male and female
NOAEL : 113 mg/kg
Application Route : Oral
Exposure time : 90d
Dose : 22, 113 and 273 mg/kg bw/day
Method : OECD Test Guideline 408
Remarks : By analogy with a product of similar composition

Species : Rabbit, male and female
NOAEL : 10 mg/kg
Application Route : Dermal
Exposure time : 21/28d
Number of exposures : 6,5 to 7 hours
Dose : 0 or 10 mg/kg/day
Method : OECD Test Guideline 410
GLP : yes

Hostaperm Blue BT-729-D

Page 14(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

Symptoms : Necrosis

Aspiration toxicity

Product:

no data available

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

No aspiration toxicity classification

Cetyltrimethyl ammonium chloride:

no data available

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 has not been tested. The information is derived from the properties of the individual components.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yes
Remarks: static test

Toxicity to daphnia and other aquatic invertebrates : Remarks: not tested.

Toxicity to algae/aquatic plants : Remarks: not tested.

Toxicity to microorganisms : Remarks: not tested.

Hostaperm Blue BT-729-D

Page 15(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10.000 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: By analogy with a product of similar composition
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: By analogy with a product of similar composition
- Toxicity to algae/aquatic plants : ErC10 (Lemna gibba (gibbous duckweed)): > 100 mg/l
End point: Growth rate
Exposure time: 7 d
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 221
GLP: yes
- Toxicity to microorganisms : EC10 (activated sludge): > 1.000 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: yes
- Toxicity to fish (Chronic toxicity) : Remarks: no data available
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: \geq 1 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Analytical monitoring: no
Method: OECD Test Guideline 211
GLP: yes
Remarks: No toxicity at the limit of solubility
- Toxicity to soil dwelling organisms : Test Type: artificial soil
NOEC: \geq 1.000 mg/kg
Exposure time: 14 d
End point: mortality

Hostaperm Blue BT-729-D

Page 16(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207

Cetyltrimethyl ammonium chloride:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 0,210 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,012 mg/l
aquatic invertebrates
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
Remarks: By analogy with a product of similar composition

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (algae)): 0,113 mg/l
plants
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: By analogy with a product of similar composition

EC10 (Selenastrum capricornutum (green algae)): 0,068 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: By analogy with a product of similar composition

M-Factor (Acute aquatic : 10
toxicity)

Toxicity to microorganisms : EC50 : 130 mg/kg dry weight (d.w.)
Exposure time: 28 d
Test Type: Soil
Method: OECD 216
GLP: yes
Remarks: By analogy with a product of similar composition

EC10 : 70 mg/kg dry weight (d.w.)
Exposure time: 28 d
Test Type: Soil
Method: OECD 216
GLP: yes
Remarks: By analogy with a product of similar composition

EC50 (Pseudomonas putida): 0,96 mg/l
Exposure time: 16 h
Test Type: static test

Hostaperm Blue BT-729-D

Page 17(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

Method: Other

Toxicity to fish (Chronic toxicity) : NOEC: 0,0322 mg/l
Exposure time: 28 d
Species: Pimephales promelas (fathead minnow)
Method: Other
Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,00415 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: static test
Method: OECD Test Guideline 211
GLP: yes
Remarks: By analogy with a product of similar composition

M-Factor (Chronic aquatic toxicity) : 1

Plant toxicity : EC50: 537 mg/kg
End point: Growth
Test period: 16 d
Species: Sinapis alba
Method: OECD Guide-line 208
GLP:yes
Remarks: By analogy with a product of similar composition

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: This property is substance-specific and therefore cannot be given for the preparation.

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 107 mg/l
Result: Not biodegradable
Biodegradation: < 1 %
Related to: Biochemical Oxygen Demand (BOD)
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: no
Remarks: By analogy with a product of similar composition

Hostaperm Blue BT-729-D

Page 18(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

Cetyltrimethyl ammonium chloride:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: ca. 93,5 %
Related to: Carbon dioxide (CO₂)
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

Test Type: aerobic
Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: ca. 65 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

Photodegradation : Rate constant: 3E-11 cm³/s
Method: calculated

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: not tested.

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

Partition coefficient: n- : log Pow: < -0,11 (20 °C)
octanol/water pH: 6,2
Method: Other
GLP: no

Cetyltrimethyl ammonium chloride:

Bioaccumulation : Bioconcentration factor (BCF): 70,8
Method: calculated
Remarks: Due to the distribution coefficient n-octanol/water,
accumulation in organisms is not expected.

Partition coefficient: n- : log Pow: 3,08 (25 °C)
octanol/water Method: calculated

12.4 Mobility in soil

Components:

Cetyltrimethyl ammonium chloride:

Distribution among : Medium: Soil
environmental compartments log Koc: 5,5 - 6,4
Kd: 13.630 ml/g

Stability in soil : Dissipation time: 70 d
Percentage dissipation: 64 % (DT50: 40 d)

Hostaperm Blue BT-729-D

Page 19(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

Method: Other

Remarks: By analogy with a product of similar composition

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.

Components:

Hydrogen [29H,31H-phthalocyaninesulphonato(3-)-N29,N30,N31,N32]cuprate(1-):

Assessment : The substance is not identified as a PBT or as a vPvB substance.

Cetyltrimethyl ammonium chloride:

Assessment : Remarks: The substance does not meet the criteria for PBT or vPvB substance.

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:

Environmental fate and pathways : no data available

Additional ecological information : no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

Hostaperm Blue BT-729-D

Page 20(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR	not restricted
ADN	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	: Neither banned nor restricted
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable

Other regulations:

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

Hostaperm Blue BT-729-D

Page 21(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

15.2 Chemical safety assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

SECTION 16: Other information

Full text of H-Statements

H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.
H318	:	Causes serious eye damage.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Skin Corr.	:	Skin corrosion

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



Hostaperm Blue BT-729-D

Page 22(22)

Substance key: SXR098693

Revision Date: 03.06.2022

Version : 8 - 3 / EU

Date of printing : 06.03.2023

Classification of the mixture:

Aquatic Chronic 3

H412

Classification procedure:

Calculation method

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