

Hostafine Black TS 30

Page 1(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / 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

Hostafine Black TS 30

Material number: 219508

Chemical nature:

C.I. Pigment Black 7 in aqueous dispersion.

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
Office supplies
Toys manufacture
Type of use : Colourant preparation

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)

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

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 pictograms :



Hostafine Black TS 30

Page 2(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P261 Avoid breathing mist or vapours. P273 Avoid release to the environment. P280 Wear protective gloves. Response: P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

2-Octyl-2H-isothiazol-3-one
1,2-Benzisothiazol-3(2H)-one
2-Methylisothiazolin-3-one
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

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.

No hazards to be specially mentioned.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-Octyl-2H-isothiazol-3-one	26530-20-1 247-761-7 613-112-00-5	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311	>= 0,0025 - < 0,025

Hostafine Black TS 30

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

		<p>Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071</p> <hr/> <p>M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100</p> <hr/> <p>specific concentration limit Skin Sens. 1A; H317 >= 0,0015 %</p> <hr/> <p>Acute toxicity estimate</p> <p>Acute oral toxicity: 125 mg/kg Acute inhalation toxicity (dust/mist): 0,27 mg/l</p> <p>Acute dermal toxicity: 311 mg/kg</p>	
<p>2-Methylisothiazolin-3-one</p>	<p>2682-20-4 220-239-6 613-326-00-9 01-2120764690-50</p>	<p>Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071</p> <hr/> <p>M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1</p> <hr/> <p>specific concentration limit</p>	<p>>= 0,0025 - < 0,025</p>

Hostafine Black TS 30

Page 4(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

		Skin Sens. 1A; H317 >= 0,0015 %	
1,2-Benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1 specific concentration limit Skin Sens. 1; H317 >= 0,05 %	>= 0,0025 - < 0,025
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9 613-167-00-5 01-2120764691-48	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 specific concentration limit Skin Corr. 1C; H314 >= 0,6 % Skin Irrit. 2; H315 0,06 - < 0,6 % Eye Irrit. 2; H319 0,06 - < 0,6 % Skin Sens. 1A; H317 >= 0,0015 % Eye Dam. 1; H318 >= 0,6 %	>= 0,0002 - < 0,0015

For explanation of abbreviations see section 16.

Hostafine Black TS 30

Page 5(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

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 : Wash off immediately with plenty of water.
Consult a physician.
- 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

- Risks : No additional hazards are known except those derived from
the labelling.

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
Dry powder
Carbon dioxide (CO₂)
Alcohol-resistant foam
- Unsuitable extinguishing media : High volume water jet

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)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

5.3 Advice for firefighters

- Special protective equipment for firefighters : Self-contained breathing apparatus
- Further information : Wear suitable protective equipment.

Hostafine Black TS 30

Page 6(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment.
Do not let the liquid drain into rivers, ponds or sewer systems.

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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep container tightly closed. Protect against frost. The product after freezing is no longer useable.

7.3 Specific end use(s)

Specific use(s) : No further recommendations.

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
----------------	---------	-----------------	--------------------------	-------

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

heubach

Hostafine Black TS 30

Page 7(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

2-Methylisothiazolin-3-one CAS-No.: 2682-20-4	Workers	Inhalation	Long-term local effects	0,021 mg/m ³
Remarks:DNEL				
	Workers	Inhalation	Acute local effects	0,043 mg/m ³
Remarks:DNEL				
	Consumers	Inhalation	Long-term local effects	0,021 mg/m ³
Remarks:DNEL				
	Consumers	Oral	Long-term systemic effects	0,027 mg/kg bw/day
Remarks:DNEL				
	Consumers	Oral	Acute systemic effects	0,053 mg/kg bw/day
Remarks:DNEL				
1,2-Benzisothiazol-3(2H)-one CAS-No.: 2634-33-5	Workers	Inhalation	Long-term systemic effects	6,81 mg/m ³
Remarks:DNEL				
	Workers	Dermal	Long-term systemic effects	0,966 mg/kg bw/day
Remarks:DNEL				
	Consumers	Inhalation	Long-term systemic effects	1,2 mg/m ³
Remarks:DNEL				
	Consumers	Dermal	Long-term systemic effects	0,345 mg/kg bw/day
Remarks:DNEL				
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS-No.: 55965-84-9	Workers	Inhalation	Long-term local effects	0,02 mg/m ³
Remarks:DNEL				
	Workers	Inhalation	Acute local effects	0,04 mg/m ³
Remarks:DNEL				
	Consumers	Inhalation	Long-term local effects	0,02 mg/m ³
Remarks:DNEL				
	Consumers	Inhalation	Acute local effects	0,04 mg/m ³
Remarks:DNEL				
	Consumers	Oral	Long-term systemic effects	0,09 mg/kg bw/day
Remarks:DNEL				
	Consumers	Oral	Acute systemic effects	0,11 mg/kg bw/day
Remarks:DNEL				

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

Substance name	Environmental Compartment	Value
2-Methylisothiazolin-3-one CAS-No.: 2682-20-4	Fresh water	0,0039 mg/l

Hostafine Black TS 30

Page 8(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

	Marine water	0,0039 mg/l
	Sewage treatment plant	0,23 mg/l
	Soil	0,047 mg/kg dry weight (d.w.)
	Intermittent use/release	0,0039 mg/l
1,2-Benzisothiazol-3(2H)-one CAS-No.: 2634-33-5	Fresh water	0,00403 mg/l
	Marine water	0,000403 mg/l
	Intermittent use/release	0,0011 mg/l
	Sewage treatment plant	1,03 mg/l
	Fresh water sediment	0,0499 mg/kg dry weight (d.w.)
	Marine sediment	0,00499 mg/kg dry weight (d.w.)
	Soil	3 mg/kg dry weight (d.w.)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS-No.: 55965-84-9	Fresh water	3,39 µg/l
	Marine water	3,39 µg/l
	Sewage treatment plant	0,23 mg/l
	Soil	0,01 mg/kg dry weight (d.w.)
	Intermittent use/release	3,39 µg/l
	Fresh water sediment	0,027 mg/kg dry weight (d.w.)
	Marine sediment	0,027 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

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

Skin and body protection : working clothes

Respiratory protection : Yes, if TLV value is exceeded
Filter A (organic gases and vapours) to standard DIN EN 141

Protective measures : Wear suitable protective equipment.

Hostafine Black TS 30

Page 9(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	black
Odour	:	not specified
Odour Threshold	:	not required
Boiling point	:	> 100 °C
Flammability	:	Not applicable
Upper explosion limit / upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Flash point	:	> 100 °C
Auto-ignition temperature	:	not determined
Decomposition temperature	:	> 100 °C with dehydration
pH	:	8 (20 °C) Concentration: 100 % (undiluted)
Viscosity		
Viscosity, dynamic	:	70 mPa.s (23 °C)
Solubility(ies)		
Water solubility	:	miscible
Partition coefficient: n-octanol/water	:	not determined
Vapour pressure	:	not determined
Relative density	:	no data available
Density	:	1,20 g/cm ³ (20 °C)
Bulk density	:	no data available
Relative vapour density	:	not determined
Particle characteristics		

Hostafine Black TS 30

Page 10(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Particle size : Not applicable

9.2 Other information

Explosives : no data available

Oxidizing properties : no data available

Flammable solids
Burning number : Not applicable

Self-ignition : no data available

Self-heating substances : no data available

Metal corrosion rate : no data available

Evaporation rate : not determined

Minimum ignition energy : not determined

Molecular weight : no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Hazardous reactions : None known. Stable

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Product:

Acute oral toxicity : Remarks: no data available

Hostafine Black TS 30

Page 11(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Components:

2-Octyl-2H-isothiazol-3-one:

Acute oral toxicity : LD50 (Rat, male and female): 125 mg/kg
Method: OECD Test Guideline 401
GLP: No information available.
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute toxicity estimate: 125 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute inhalation toxicity : LC50: 0,27 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: No information available.
Assessment: The component/mixture is toxic after short term inhalation.

Acute toxicity estimate: 0,27 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute dermal toxicity : LD50: 311 mg/kg
Method: OECD Test Guideline 402
GLP: No information available.
Assessment: The component/mixture is toxic after single contact with skin.

Acute toxicity estimate: 311 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

2-Methylisothiazolin-3-one:

Acute oral toxicity : LD50 (Rat): 285,5 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 0,11 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Hostafine Black TS 30

Page 12(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Assessment: The component/mixture is toxic after single contact with skin.

1,2-Benzisothiazol-3(2H)-one:

Acute oral toxicity : LD50 (Rat, male and female): 670 - 784 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute toxicity estimate: Method: Calculation method

Acute inhalation toxicity : LC50 (Rat, male and female): 0,5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OPPTS 870.1300
GLP: yes

Acute toxicity estimate: Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Acute oral toxicity : LD50 (Rat): 64 mg/kg

Acute toxicity estimate: Method: Calculation method

Acute inhalation toxicity : LC50 (Rat, male and female): 0,171 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

Assessment: Corrosive to the respiratory tract.

Acute toxicity estimate: Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : LD50 (Rabbit): 92,4 mg/kg

Acute toxicity estimate: Method: Calculation method

Skin corrosion/irritation

Product:

Remarks : no data available

Components:

2-Octyl-2H-isothiazol-3-one:

Species : Rabbit

Hostafine Black TS 30

Page 13(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Method : OECD Test Guideline 404
Result : Causes burns.
GLP : No information available.

2-Methylisothiazolin-3-one:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Causes burns.

1,2-Benzisothiazol-3(2H)-one:

Species : Rabbit
Exposure time : 4 h
Method : Other
Result : Irritating to skin.
GLP : yes

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive after 1 to 4 hours of exposure
GLP : no

Serious eye damage/eye irritation

Product:

Remarks : no data available

Components:

2-Octyl-2H-isothiazol-3-one:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Risk of serious damage to eyes.
GLP : No information available.

2-Methylisothiazolin-3-one:

Result : Risk of serious damage to eyes.
Remarks : By analogy with a product of similar composition

1,2-Benzisothiazol-3(2H)-one:

Species : Rabbit
Exposure time : 2,9 h - 11 d
Result : Risk of serious damage to eyes.
GLP : yes

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Species : Rabbit

Hostafine Black TS 30

Page 14(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Method : Other
Result : Risk of serious damage to eyes.
GLP : no

Respiratory or skin sensitisation

Product:

Remarks : no data available

Components:

2-Octyl-2H-isothiazol-3-one:

Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig
Method : Maximisation Test
Result : May cause sensitisation by skin contact.
GLP : No information available.

Assessment : Harmful if swallowed., Toxic in contact with skin., Toxic if inhaled., Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

2-Methylisothiazolin-3-one:

Test Type : Buehler Test
Exposure routes : Dermal
Species : Guinea pig
Method : OECD Test Guideline 406
Result : The product is a skin sensitiser, sub-category 1A.

Assessment : Toxic if swallowed., Fatal if inhaled., Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

1,2-Benzisothiazol-3(2H)-one:

Test Type : Guinea pig maximization test
Exposure routes : Dermal
Species : Guinea pig
Method : Other
Result : May cause sensitisation by skin contact.
GLP : yes

Assessment : Harmful if swallowed., Fatal if inhaled., Causes skin irritation.,
Causes serious eye damage.
May cause an allergic skin reaction.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Test Type : Maximisation Test

Hostafine Black TS 30

Page 15(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Species : Guinea pig
Method : OECD Test Guideline 406
Result : The product is a skin sensitiser, sub-category 1A.
GLP : yes

Assessment : Toxic if swallowed., Fatal in contact with skin., Fatal if inhaled., Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: no data available

Germ cell mutagenicity-
Assessment : No information available.

Components:

2-Octyl-2H-isothiazol-3-one:

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: No information available.

Genotoxicity in vivo : Test Type: Micronucleus test
Method: Other
Result: negative
GLP: No information available.

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

2-Methylisothiazolin-3-one:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: mammalian cells
Metabolic activation: with and without metabolic activation
Result: negative

Test Type: Micronucleus test
Test system: mammalian cells
Metabolic activation: with and without metabolic activation
Result: negative

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

Hostafine Black TS 30

Page 16(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Assessment not show mutagenic effects

1,2-Benzisothiazol-3(2H)-one:

Genotoxicity in vitro : Test Type: Mouse lymphoma assay
Test system: mouse lymphoma cells
Concentration: 0,1 - 12,8 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 0,064 - 200 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Concentration: 1 - 40 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: positive
GLP: yes

Genotoxicity in vivo : Test Type: Other
Species: Rat (male)
Strain: wistar
Cell type: Liver cells
Application Route: Ingestion
Exposure time: single dose
Dose: 560 - 1400 mg/kg
Method: OECD Test Guideline 486
Result: negative
GLP: yes

Test Type: Micronucleus test
Species: Mouse (male and female)
Strain: CD1
Cell type: Bone marrow
Application Route: Ingestion
Exposure time: single dose
Dose: 125-250-500-1000-2000-5000mg/k
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Germ cell mutagenicity-Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Hostafine Black TS 30

Page 17(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Genotoxicity in vitro : Test Type: In vitro study
Metabolic activation: with and without metabolic activation
Result: Conflicting results have been seen in different studies.

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Rat
Cell type: Bone marrow
Application Route: Oral
Exposure time: <= 5 d
Dose: 1-5 x <= 28 mg/kg
Result: negative

Test Type: Micronucleus test
Species: Mouse
Application Route: Oral
Exposure time: <= 5 d
Dose: 1-5 x <= 20 - 30 mg/kg
Result: negative

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

Carcinogenicity

Product:

Carcinogenicity -
Assessment : No information available.

Components:

2-Octyl-2H-isothiazol-3-one:

Carcinogenicity -
Assessment : No information available.

2-Methylisothiazolin-3-one:

Carcinogenicity -
Assessment : Not classifiable as a human carcinogen.

1,2-Benzisothiazol-3(2H)-one:

Carcinogenicity -
Assessment : No information available.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Carcinogenicity -
Assessment : No evidence of carcinogenicity in animal studies.

Hostafine Black TS 30

Page 18(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : No information available.

Components:

2-Octyl-2H-isothiazol-3-one:

Reproductive toxicity - Assessment : No information available.

2-Methylisothiazolin-3-one:

Effects on fertility : Remarks: This information is not available.

Effects on foetal development : Remarks: Based on available data, the classification criteria are not met.

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

1,2-Benzisothiazol-3(2H)-one:

Effects on fertility : Species: Rat, male
Application Route: oral (feed)
Dose: 18,5 - 97,8 mg/kg
General Toxicity - Parent: NOAEL: 18,5 mg/kg body weight
General Toxicity F1: NOAEL: 48 mg/kg body weight
Method: Other
GLP: yes

Species: Rat, female
Application Route: oral (feed)
Dose: 27,0 - 114,8 mg/kg
General Toxicity - Parent: NOAEL: 27 mg/kg body weight
General Toxicity F1: NOAEL: 56,6 mg/kg body weight
Method: Other
GLP: yes

Effects on foetal development : Species: Rat, female
Application Route: oral (gavage)
Dose: 10 - 40 - 100 mg/kg
General Toxicity Maternal: NOAEL: 10 mg/kg body weight
Teratogenicity: NOAEL: 40 mg/kg body weight
Method: Directive 67/548/EEC, Annex V, B.31.
GLP: yes

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

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Effects on fertility : Species: Rat, male and female

Hostafine Black TS 30

Page 19(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Application Route: Drinking water
Dose: 25 - 75 - 225 ppm
General Toxicity - Parent: NOAEL: 16,3 - 24,7 mg/kg body weight
General Toxicity F1: NOAEL: 16,3 - 24,7 mg/kg body weight
Method: Other
GLP: yes

Species: Rat, male and female
Application Route: Drinking water
Dose: 30 - 100 - 300 ppm
General Toxicity - Parent: NOAEL: 2,8 - 4,4 mg/kg body weight
General Toxicity F1: NOAEL: 22,7 - 28 mg/kg body weight
General Toxicity F2: NOAEL: 35,7 - 39,1 mg/kg body weight
Method: OECD Test Guideline 416
GLP: yes

Effects on foetal development : Species: Rat, male and female
Application Route: oral (gavage)
Dose: <= 15 mg/kg
Developmental Toxicity: NOAEL: 15 mg/kg body weight
Method: Other

Species: Rat, male and female
Application Route: oral (gavage)
General Toxicity Maternal: NOAEL: <= 3,95 mg/kg body weight
Method: Other

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity
Embryotoxicity classification not possible from current data.

STOT - single exposure

Product:

Remarks : no data available

Components:

2-Octyl-2H-isothiazol-3-one:

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

2-Methylisothiazolin-3-one:

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

1,2-Benzisothiazol-3(2H)-one:

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

Hostafine Black TS 30

Page 20(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

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

STOT - repeated exposure

Product:

Remarks : no data available

Components:

2-Octyl-2H-isothiazol-3-one:

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

2-Methylisothiazolin-3-one:

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

1,2-Benzisothiazol-3(2H)-one:

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

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

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

Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

2-Octyl-2H-isothiazol-3-one:

Remarks : no data available

2-Methylisothiazolin-3-one:

Species : Rat
NOAEL : 25 mg/kg
Application Route : Oral
Exposure time : 90 d
Remarks : By analogy with a product of similar composition

1,2-Benzisothiazol-3(2H)-one:

Hostafine Black TS 30

Page 21(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Species : Dog, male and female
NOAEL : 5 mg/kg
LOAEL : 20 mg/kg
Application Route : oral (gavage)
Exposure time : 90 d
Number of exposures : daily
Dose : 5 - 20 - 50 mg/kg
Control Group : yes
Method : 88/302/EC
GLP : yes

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Species : Rat, male and female
NOAEL : 16,3 - 24,7 mg/kg
Application Route : Drinking water
Exposure time : 90 d
Number of exposures : daily
Dose : 25 - 75 - 225 ppm
Control Group : yes
Method : Other
GLP : yes

Aspiration toxicity

Product:

no data available

Components:

2-Octyl-2H-isothiazol-3-one:

No aspiration toxicity classification

2-Methylisothiazolin-3-one:

No aspiration toxicity classification

1,2-Benzisothiazol-3(2H)-one:

No aspiration toxicity classification

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

No aspiration toxicity classification

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

Hostafine Black TS 30

Page 22(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

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.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: no data available

Toxicity to algae/aquatic plants : Remarks: no data available

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to microorganisms : Remarks: no data available

Components:

2-Octyl-2H-isothiazol-3-one:

Toxicity to fish : LC50 : 0,122 mg/l
Exposure time: 96 h
Test Type: Other
Method: estimated
GLP: No information available.
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to daphnia and other aquatic invertebrates : LC50 : 0,181 mg/l
Exposure time: 48 h
Method: estimated
GLP: No information available.
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to algae/aquatic plants : ErC50 : 0,15 mg/l
Exposure time: 96 h
Method: estimated
GLP: No information available.
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

NOEC : 0,068 mg/l
Exposure time: 96 h

Hostafine Black TS 30

Page 23(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Method: estimated
GLP: No information available.
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC: 0,022 mg/l
Exposure time: 60 d
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,035 mg/l
Exposure time: 21 d
Species: Daphnia sp. (water flea)
Method: Other
GLP: No information available.
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

M-Factor (Chronic aquatic toxicity) : 100

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

2-Methylisothiazolin-3-one:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,77 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,934 mg/l
End point: mortality
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 0,0104 mg/l
End point: Biomass
Exposure time: 96 h
Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (algae)): 0,063 mg/l
End point: Biomass
Exposure time: 96 h
Method: OECD Test Guideline 201

Hostafine Black TS 30

Page 24(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

- M-Factor (Acute aquatic toxicity) : 10
- Toxicity to microorganisms : EC50 (Bacteria): 31,7 mg/l
Exposure time: 3 h
- Toxicity to fish (Chronic toxicity) : Remarks: no data available
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available
- M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment

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

1,2-Benzisothiazol-3(2H)-one:

- Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 16,7 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: Other
GLP: yes
- LC50 (Oncorhynchus mykiss (rainbow trout)): 2,18 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,94 mg/l
End point: mortality
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
- EC0 (Daphnia magna (Water flea)): 0,643 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202

Hostafine Black TS 30

Page 25(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

GLP: yes

EC50 (Mysidopsis bahia (opossum shrimp)): 0,9893 mg/l

Exposure time: 96 h

Test Type: static test

Analytical monitoring: yes

Method: Other

GLP: yes

Remarks: salt water

NOEC (Mysidopsis bahia (opossum shrimp)): 0,25 mg/l

Exposure time: 96 h

Test Type: static test

Analytical monitoring: yes

Method: Other

GLP: yes

Remarks: salt water

Toxicity to algae/aquatic plants

: ErC50 (Selenastrum capricornutum (green algae)): 0,110 mg/l

Exposure time: 72 h

Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)):
0,0403 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

M-Factor (Acute aquatic toxicity)

: 1

Toxicity to microorganisms

: EC50 (activated sludge): 23 mg/l

End point: Bacteria toxicity (respiration inhibition)

Exposure time: 3 h

Test Type: aquatic

Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Remarks: The details of the toxic effect relate to the nominal concentration.

EC50 : > 811,5 mg/kg Trockengewicht mg/kg dry weight (d.w.)

Exposure time: 28 d

Test Type: Soil

Analytical monitoring: yes

Method: OECD 216

GLP: yes

Remarks: The details of the toxic effect relate to the nominal concentration.

NOEC : 263,7 mg/kg Trockengewicht mg/kg dry weight (d.w.)

Exposure time: 28 d

Hostafine Black TS 30

Page 26(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

		Test Type: Soil Analytical monitoring: yes Method: OECD 216 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,21 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout) Analytical monitoring: yes Method: OECD Test Guideline 215 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 1,2 mg/l End point: Reproduction rate Exposure time: 21 d Species: Daphnia magna (Water flea) Analytical monitoring: yes Method: OECD Test Guideline 211 GLP: yes
		NOEC: 1,9 mg/l End point: Reproduction rate Exposure time: 21 d Species: Daphnia magna (Water flea) Analytical monitoring: yes Method: OECD Test Guideline 211 GLP: yes
Toxicity to soil dwelling organisms	:	Test Type: artificial soil LC50: > 410,6 mg/kg Exposure time: 14 d End point: mortality Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207 GLP:yes Remarks: The details of the toxic effect relate to the nominal concentration.
		Test Type: artificial soil NOEC: 234,5 mg/kg Exposure time: 14 d End point: mortality Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207 GLP:yes Remarks: The details of the toxic effect relate to the nominal concentration.
Plant toxicity	:	EC50: 340 mg/kg Exposure time: 20 d End point: Growth Species: Phaseolus vulgaris

Hostafine Black TS 30

Page 27(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Analytical monitoring: yes
Method: OECD Guide-line 208
GLP:yes
Remarks: The details of the toxic effect relate to the nominal concentration.

NOEC: 90 mg/kg
Exposure time: 20 d
End point: Growth
Species: Phaseolus vulgaris
Analytical monitoring: yes
Method: OECD Guide-line 208
GLP:yes
Remarks: The details of the toxic effect relate to the nominal concentration.

EC50: 300 mg/kg
Exposure time: 19 d
End point: Growth
Species: Triticum aestivm (wheat)
Analytical monitoring: yes
Method: OECD Guide-line 208
GLP:yes
Remarks: The details of the toxic effect relate to the nominal concentration.

NOEC: 51 mg/kg
Exposure time: 19 d
End point: Growth
Species: Triticum aestivm (wheat)
Analytical monitoring: yes
Method: OECD Guide-line 208
GLP:yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Sediment toxicity : Remarks: not available

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Toxicity to fish : EC50 (Oncorhynchus mykiss (rainbow trout)): 0,22 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,1 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Hostafine Black TS 30

Page 28(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

- Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): 0,0052 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 201
- NOEC (Skeletonema costatum (marine diatom)): 0,00049 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 100
- Toxicity to microorganisms : EC50 (activated sludge): 7,92 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
- Toxicity to fish (Chronic toxicity) : NOEC: 0,098 mg/l
Exposure time: 28 d
Species: Oncorhynchus mykiss (rainbow trout)
Method: OECD Test Guideline 215
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,004 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202
- M-Factor (Chronic aquatic toxicity) : 100
- Toxicity to soil dwelling organisms : LC50:
86,6 mg/kg dry weight (d.w.)
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207
- NOEC:
8,83 mg/kg dry weight (d.w.)
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207

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: no data available

Hostafine Black TS 30

Page 29(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Components:

2-Octyl-2H-isothiazol-3-one:

Biodegradability : Result: Not readily biodegradable.
Method: Other
GLP: No information available.
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

2-Methylisothiazolin-3-one:

Biodegradability : Test Type: aerobic
Result: Not rapidly biodegradable

1,2-Benzisothiazol-3(2H)-one:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 1 mg/l
Result: Partially biodegradable.
Exposure time: 63 d
Method: OECD Test Guideline 301C
GLP: yes

Physico-chemical removability : Remarks: Biodegradable

Stability in water : Test Type: abiotic
Degradation half life: 219 d
pH: 4
Hydrolysis: at 50 °C
Method: OECD Test Guideline 111
GLP: yes

Test Type: abiotic
Degradation half life: > 200 d
pH: 7
Hydrolysis: at 50 °C
Method: OECD Test Guideline 111
GLP: yes

Test Type: abiotic
Degradation half life: 145 d
pH: 9
Hydrolysis: at 50 °C
Method: OECD Test Guideline 111
GLP: yes

Photodegradation : Test Type: water
Light source: Xenon lamp
Light spectrum: 290 - 400 nm
Degradation (direct photolysis): < 1,5 %
GLP: yes

Hostafine Black TS 30

Page 30(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Test Type: air
Method: calculated
GLP: no
Remarks: Decomposes rapidly in contact with light.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Not rapidly biodegradable
Method: OECD Test Guideline 301B

Photodegradation : Test Type: water
Light source: Sunlight

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: no data available

Components:

2-Octyl-2H-isothiazol-3-one:

Partition coefficient: n-octanol/water : log Pow: 2,61 (25 °C)
pH: 7
Method: estimated
GLP: No information available.
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

2-Methylisothiazolin-3-one:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

1,2-Benzisothiazol-3(2H)-one:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Exposure time: 56 d
Concentration: 0,1 mg/l
Bioconcentration factor (BCF): 6,62
Method: OECD Test Guideline 305
GLP: no
Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: 0,7 (20 °C)
pH: 7
Method: Regulation (EC) No. 440/2008, Annex, A.8
GLP: yes

Hostafine Black TS 30

Page 31(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Bioaccumulation : Bioconcentration factor (BCF): 3,6
Method: calculated
Remarks: Does not accumulate in organisms.

Partition coefficient: n-octanol/water : log Pow: -0,71 - 0,75
Method: OECD Test Guideline 107
GLP: yes

12.4 Mobility in soil

Components:

2-Methylisothiazolin-3-one:

Distribution among environmental compartments : Remarks: no data available

1,2-Benzisothiazol-3(2H)-one:

Distribution among environmental compartments : Adsorption/Soil
Medium: water - soil
Koc: 235 - 566
Method: Other

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:

2-Octyl-2H-isothiazol-3-one:

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

2-Methylisothiazolin-3-one:

Assessment : Remarks: no data available

1,2-Benzisothiazol-3(2H)-one:

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

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Hostafine Black TS 30

Page 32(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

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

Components:

2-Methylisothiazolin-3-one:

Environmental fate and pathways : no data available

1,2-Benzisothiazol-3(2H)-one:

Environmental fate and pathways : not available

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

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 : This material and its container must be disposed of in a safe way.

SECTION 14: Transport information

Section 14.1. to 14.5.

Hostafine Black TS 30

Page 33(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

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)	: Conditions of restriction for the following entries should be considered: Number on list 3
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.

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.

Hostafine Black TS 30

Page 34(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

SECTION 16: Other information

Full text of H-Statements

H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H310	: Fatal in contact with skin.
H311	: Toxic in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H330	: Fatal if inhaled.
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.
EUH071	: Corrosive to the respiratory tract.

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
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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 -

Hostafine Black TS 30

Page 35(35)

Substance key: 000000251031

Revision Date: 05.12.2022

Version : 5 - 0 / EU

Date of printing : 06.03.2023

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

Other information : Observe national and local legal requirements

Classification of the mixture:

Classification procedure:

Skin Sens. 1

H317

Calculation method

Aquatic Chronic 3

H412

Calculation method

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Heubach makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Heubach's products for its particular application. Nothing included in this information waives any of Heubach's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Heubach products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Heubach.

REG_EU / EN