

**Hostaperm Red P2GL-WD**

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Substance key: SXR036628

Revision Date: 23.12.2022

Version : 4 - 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**

Hostaperm Red P2GL-WD

**Material number:** 108159

**Chemical nature:** Pigment Red 179 - Nanoform

**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)**

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.

**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.

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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.

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment  
Potential dust explosion hazard.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate	Not Assigned 411-310-4 616-077-00-4 01-0000015871-68-0001	Eye Dam. 1; H318	>= 3 - < 10

For explanation of abbreviations see section 16.

This substance/ mixture contains nanoforms

**Components:**

**Nano C.I. Pigment Red 179:**

Particle characteristics

- Particle Size Distribution : D10 = 0,023 µm ± 0,018 µm  
D50 = 0,045 µm ± 0,035 µm  
D90 = 0,060 µm ± 0,040 µm  
Measurement technique: TEM
- Specific surface area : 26 m<sup>2</sup>/g ± 24 m<sup>2</sup>/g  
Measurement technique: Brunauer, Emmett and Teller (BET) method using Nitrogen
- Assessment : Assessment: This substance/ mixture contains nanoforms  
Total Content of Nanomaterials: 80 - 100 %
- Shape : Shape: rods  
Fraction (Weight): 1 - 50 %  
Measurement technique: TEM

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	Shape: spheres
	Fraction (Weight): 50 - 100 %
	Measurement technique: TEM
Crystallinity	: Crystallinity: crystalline Measurement technique: X-ray Diffraction (XRD)
Surface treatment /Coatings	: Surface treatment /Coatings: no

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**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.
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.
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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

Suitable extinguishing media	: Water spray jet Foam
Unsuitable extinguishing media	: High volume water jet Carbon dioxide (CO <sub>2</sub> ) 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) Carbon dioxide (CO <sub>2</sub> )
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Nitrogen oxides (NO<sub>x</sub>)

Burning produces noxious and toxic fumes.  
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.

**5.3 Advice for firefighters**

Special protective equipment : Self-contained breathing apparatus for firefighters

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Wear suitable protective equipment.

**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.

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**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.

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Dust explosion class : St1

**7.2 Conditions for safe storage, including any incompatibilities**

Further information on storage conditions : Keep container dry.

**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
Nano C.I. Pigment Red 179 CAS-No.: 5521-31-3	Workers	Inhalation	Long-term systemic effects	1,25 mg/m3
	Remarks:DNEL			
	Workers	Inhalation	Acute systemic effects	1,25 mg/m3
Remarks:DNEL				
	Workers	Inhalation	Long-term local effects	1,25 mg/m3
Remarks:DNEL				
	Workers	Dermal	Long-term systemic effects	33,3 mg/kg bw/day
Remarks:DNEL				
	Consumers	Dermal	Long-term systemic effects	16,7 mg/kg bw/day
Remarks:DNEL				
	Consumers	Oral	Long-term systemic effects	10 mg/kg bw/day
Remarks:DNEL				

**8.2 Exposure controls**

**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 : Wear dust mask when handling large quantities

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Protective measures : Observe the usual precautions for handling chemicals.

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Physical state : powder

Colour : red

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 : > 450 °C

pH : 5,5 - 8,5

Viscosity  
Viscosity, dynamic : Not applicable

Solubility(ies)  
Water solubility : (20 °C)  
practically insoluble

Partition coefficient: n-octanol/water : not determined

Vapour pressure : Not applicable

Density : approx. 1,45 g/cm<sup>3</sup> (20 °C)

Bulk density : approx. 500 kg/m<sup>3</sup> (20 °C)

Particle characteristics  
Assessment : Assessment: This substance/ mixture contains nanoforms

Particle size : Further particle properties for nanomaterials see section 3

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**9.2 Other information**

Oxidizing properties	:	no data available
Flammable solids	:	
Burning number	:	3 Local combustion without spreading
Self-ignition	:	> 300 °C Method: VDI 2263 (Grewer)
Dust explosion class	:	St1
Evaporation rate	:	Not applicable
Minimum ignition energy	:	13 mJ with inductive electrical resistance
Molecular weight	:	no data available

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**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

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**SECTION 11: Toxicological information**

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

**Acute toxicity**

**Product:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: not tested.

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Acute dermal toxicity : Remarks: no data available

**Components:**

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Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity

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

**Skin corrosion/irritation**

**Product:**

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

**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

**Serious eye damage/eye irritation**

**Product:**

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

**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

Species : Rabbit



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Exposure time : 24 h  
Method : OECD Test Guideline 405  
Result : Risk of serious damage to eyes.  
GLP : yes

**Respiratory or skin sensitisation**

**Product:**

Test Type : Mouse local lymphnode assay  
Method : OECD Test Guideline 429  
Result : Did not cause sensitisation on laboratory animals.  
GLP : yes

**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

Test Type : Maximisation Test  
Exposure routes : Dermal  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

Assessment : Causes serious eye damage.

**Germ cell mutagenicity**

**Product:**

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

Germ cell mutagenicity-  
Assessment : No information available.

**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

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: Chromosome aberration test in vitro  
Test system: Chinese hamster cells  
Metabolic activation: with and without metabolic activation

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Method: OECD Test Guideline 473

Result: negative

GLP: yes

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

**Carcinogenicity**

**Product:**

Carcinogenicity -  
Assessment : No information available.

**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

Carcinogenicity -  
Assessment : No information available.

**Reproductive toxicity**

**Product:**

Reproductive toxicity -  
Assessment : No information available.

**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

Reproductive toxicity -  
Assessment : No information available.

**STOT - single exposure**

**Product:**

Remarks : no data available

**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

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

**STOT - repeated exposure**

**Product:**

Remarks : no data available

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**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

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

**Repeated dose toxicity**

**Product:**

Remarks : not tested.

**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

Species : Rat, male and female  
NOEL : 62,5 mg/kg bw/day  
Application Route : oral (gavage)  
Exposure time : 28 d  
Number of exposures : daily  
Dose : 0, 62,5, 250, 1000 mg/kg/day  
Method : OECD Test Guideline 407  
GLP : yes  
Remarks : No adverse effect has been observed in chronic toxicity tests.

**Aspiration toxicity**

**Product:**

no data available

**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

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.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Product:**

Toxicity to fish : Remarks: not tested.

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

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

Toxicity to microorganisms : Remarks: not tested.

**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 500 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Method: No information available.  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 48 h  
Method: Regulation (EC) No. 440/2008, Annex, C.2  
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 30 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): 3.378 mg/l  
End point: Bacteria toxicity (respiration inhibition)  
Exposure time: 3 h  
Test Type: static test  
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) : Remarks: no data available

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**Ecotoxicology Assessment**

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**12.2 Persistence and degradability**

**Product:**

Biodegradability : Remarks: Pigments are highly stable in accordance with the specifications and therefore only slightly biodegradable in the conditions of sewage treatment plants or surface waters.

**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

Biodegradability : Inoculum: activated sludge  
Concentration: 10 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 36 %  
Related to: Dissolved organic carbon (DOC)  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

**12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: not tested.

**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

Partition coefficient: n- : log Pow: < 0  
octanol/water Method: Regulation (EC) No. 440/2008, Annex, A.8

**12.4 Mobility in soil**

no data available

**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.

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**Components:**

A mixture of: 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfonic acid potassium 2-(9-methyl-1,3,8,10-tetraoxo-2,3,9,10-tetrahydro-(1H,8H)-anthra[2,1,9-def: 6,5,10-d'e'f']diisoquinolin-2-ylethansulfate:

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

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**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

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**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.

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**14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

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**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

**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.

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**SECTION 16: Other information**

**Full text of H-Statements**

H318 : Causes serious eye damage.

**Full text of other abbreviations**

Eye Dam. : Serious eye damage

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 -

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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; TECl - 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**

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.

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