

**Hostaperm Blue A4R**

Page 1(13)

Substance key: 000000019753

Revision Date: 05.01.2023

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**

Hostaperm Blue A4R

**Material number:** 153605

**Chemical nature:** C.I. Pigment Blue 15:1 - 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 Agrochemical Industry
Type of use :	Colouring agent

**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.

**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.

**Hostaperm Blue A4R**

Page 2(13)

Substance key: 000000019753

Revision Date: 05.01.2023

Version : 5 - 0 / EU

Date of printing : 06.03.2023

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.

Dust can form an explosive mixture in air.

---

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

**3.2 Mixtures**

**Components**

Remarks : No hazardous ingredients

This substance/ mixture contains nanoforms

**Components:**

**Nano C.I. Pigment Blue 15:**

Particle characteristics

Particle Size Distribution	:	D10 = 0,023 µm ± 0,018 µm D50 = 0,035 µm ± 0,025 µm D90 = 0,050 µm ± 0,030 µm Measurement technique: TEM
Specific surface area	:	60 m <sup>2</sup> /g ± 30 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: cubes Fraction (Weight): 5 - 100 % Measurement technique: TEM  Shape: spheres Fraction (Weight): 0 - 50 % Measurement technique: TEM  Shape: rods Fraction (Weight): 0 - 70 % Measurement technique: TEM
Crystallinity	:	Crystallinity: crystalline Measurement technique: X-ray Diffraction (XRD)
Surface treatment /Coatings	:	Surface treatment /Coatings: no

**Hostaperm Blue A4R**

Page 3(13)

Substance key: 000000019753

Revision Date: 05.01.2023

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 : Move the victim to fresh air.  
If you feel unwell, seek medical advice (show the label where possible).
- 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.

---

**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>)  
Nitrogen oxides (NO<sub>x</sub>)  
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.

**Hostaperm Blue A4R**

Page 4(13)

Substance key: 000000019753

Revision Date: 05.01.2023

Version : 5 - 0 / EU

Date of printing : 06.03.2023

**5.3 Advice for firefighters**

Special protective equipment : Self-contained breathing apparatus  
for firefighters

Further information : Wear suitable protective equipment.

---

**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 : Avoid dust formation.  
Take measures to prevent the build up of electrostatic charge.  
Use mechanical handling equipment.  
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 : not required under normal use  
Avoid dust formation.

Advice on protection against : Take precautionary measures against static discharges. Keep  
fire and explosion away from heat and 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 : Keep container dry. Keep containers tightly closed in a cool,  
storage conditions well-ventilated place. Handle and open container with care.

**7.3 Specific end use(s)**

**Hostaperm Blue A4R**

Page 5(13)

Substance key: 000000019753

Revision Date: 05.01.2023

Version : 5 - 0 / EU

Date of printing : 06.03.2023

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 Blue 15 CAS-No.: 147-14-8	Workers	Inhalation	Acute local effects	10 mg/m <sup>3</sup>
	Remarks:DNEL			
	Workers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
	Remarks:DNEL			

**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 : Wear suitable protective equipment.

Respiratory protection : Wear respirator with dust filter during machining of slab.

Protective measures : Wear suitable protective equipment.

---

**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 : not determined

Boiling point : Not applicable

**Hostaperm Blue A4R**

Page 6(13)

Substance key: 000000019753

Revision Date: 05.01.2023

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Flammability	:	not determined
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	410 °C Method: DIN 51794
Decomposition temperature	:	> 450 °C Heating rate: 3 K/min Method: DSC closed cup
pH	:	6 - 8
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
Vapour pressure	:	Not applicable
Relative density	:	no data available
Density	:	1,61 g/cm <sup>3</sup> (20 °C)
Bulk density	:	310 kg/m <sup>3</sup> (20 °C)
Relative vapour density	:	Not applicable
Particle characteristics Assessment	:	Assessment: This substance/ mixture contains nanoforms
Particle size	:	Further particle properties for nanomaterials see section 3

**9.2 Other information**

Oxidizing properties : no data available

Flammable solids

**Hostaperm Blue A4R**

Page 7(13)

Substance key: 000000019753

Revision Date: 05.01.2023

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Burning number	:	4 Spread of a glowing fire
Self-ignition	:	> 260 °C Method: VDI 2263 (Grewer)
Metal corrosion rate	:	Not applicable
Dust explosion class	:	St1
Evaporation rate	:	Not applicable
Minimum ignition energy	:	13 - 30 mJ with inductive electrical resistance
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 : No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

Conditions to avoid : None known.

**10.5 Incompatible materials**

Materials to avoid : None.

**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 : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

**Hostaperm Blue A4R**

Page 8(13)

Substance key: 000000019753

Revision Date: 05.01.2023

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Method: Calculation method

**Skin corrosion/irritation**

**Product:**

Species : Rabbit  
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  
GLP : yes

**Respiratory or skin sensitisation**

**Product:**

Result : non-sensitizing  
Remarks : The product has not been tested. The information is derived from the properties of the individual components.

**Germ cell mutagenicity**

**Product:**

Genotoxicity in vitro : Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Germ cell mutagenicity-  
Assessment : No information available.

**Carcinogenicity**

**Product:**

Carcinogenicity -  
Assessment : No information available.

**Reproductive toxicity**

**Product:**

Reproductive toxicity -  
Assessment : No information available.

**STOT - single exposure**

**Product:**

Remarks : no data available



**Hostaperm Blue A4R**

Page 9(13)

Substance key: 000000019753

Revision Date: 05.01.2023

Version : 5 - 0 / EU

Date of printing : 06.03.2023

**STOT - repeated exposure**

**Product:**

Remarks : no data available

**Repeated dose toxicity**

**Product:**

Remarks : This information is not available.

**Aspiration toxicity**

**Product:**

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 : no data available

---

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Product:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes

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 :

**Hostaperm Blue A4R**

Page 10(13)

Substance key: 000000019753

Revision Date: 05.01.2023

Version : 5 - 0 / EU

Date of printing : 06.03.2023

Remarks: no data available

**12.2 Persistence and degradability**

**Product:**

Biodegradability : Remarks: no data available

**12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: no data available

**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.

**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 biological degradability cannot be determined because of its insolubility.

---

**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.

**Hostaperm Blue A4R**

Page 11(13)

Substance key: 000000019753

Revision Date: 05.01.2023

Version : 5 - 0 / EU

Date of printing : 06.03.2023

---

**SECTION 14: Transport information**

**Section 14.1. to 14.5.**

<b>ADR</b>	not restricted
<b>ADN</b>	not restricted
<b>RID</b>	not restricted
<b>IATA</b>	not restricted
<b>IMDG</b>	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

**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.

**Hostaperm Blue A4R**

Page 12(13)

Substance key: 000000019753

Revision Date: 05.01.2023

Version : 5 - 0 / EU

Date of printing : 06.03.2023

---

**SECTION 16: Other information**

**Full text of other abbreviations**

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 - 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**

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

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



**Hostaperm Blue A4R**

Page 13(13)

Substance key: 000000019753

Revision Date: 05.01.2023

Version : 5 - 0 / EU

Date of printing : 06.03.2023

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