

**Ink Jet Magenta E5B 02**

Page 1(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 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**

**Ink Jet Magenta E5B 02**

**Material number:** 206153

**REACH - Registration number** 01-2119456814-32-0000  
**according to article 20(3):**

**Chemical nature:** C.I. Pigment Violet 19 - Nanoform

**CAS number :** 1047-16-1

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

**Relevant identified uses of the substance or mixture**

Industry sector : Industrial Performance Chemicals  
Type of use : Techno-chemical industry.

**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.

**Ink Jet Magenta E5B 02**

Page 2(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 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.

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**

**3.1 Substances**

Substance name : C.I. Pigment Violet 19 - Nanoform

CAS-No. : 1047-16-1

**Components**

Remarks : No hazardous ingredients

This substance/ mixture contains nanoforms

Particle characteristics

Particle size : 5,8 µm

Further particle properties for nanomaterials see section 3

Dustiness : Number-Based Dustiness Index: 907.412 1/mg  
Measurement method: DIN EN 17199-3: Continuous drop method  
SMPS

Number-Based Dustiness Index: 10.002 1/mg  
Measurement method: DIN EN 17199-3: Continuous drop method  
OPS

Particle Size Distribution : D10 = 0,023 µm ± 0,013 µm  
D50 = 0,033 µm ± 0,018 µm  
D90 = 0,048 µm ± 0,028 µm  
Measurement technique: TEM

Specific surface area : 100 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

Shape : Shape: cubes  
Fraction (Weight): 40 - 100 %  
Measurement technique: TEM

**Ink Jet Magenta E5B 02**

Page 3(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

Shape: spheres  
Fraction (Weight): 0 - 50 %  
Measurement technique: TEM

Crystallinity : Crystallinity: crystalline  
Measurement technique: X-ray Diffraction (XRD)

Surface treatment /Coatings : Surface treatment /Coatings: no

**Components:**

**Nano C.I. Pigment Violet 19:**

Particle characteristics

Dustiness : Number-Based Dustiness Index: 907.412 1/mg  
Measurement method: DIN EN 17199-3: Continuous drop method  
SMPS

Number-Based Dustiness Index: 10.002 1/mg  
Measurement method: DIN EN 17199-3: Continuous drop method  
OPS

Particle Size Distribution : D10 = 0,023  $\mu\text{m}$   $\pm$  0,013  $\mu\text{m}$   
D50 = 0,033  $\mu\text{m}$   $\pm$  0,018  $\mu\text{m}$   
D90 = 0,048  $\mu\text{m}$   $\pm$  0,028  $\mu\text{m}$   
Measurement technique: TEM

Specific surface area : 100 m<sup>2</sup>/g  $\pm$  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: 90 - 100 %

Shape : Shape: cubes  
Fraction (Weight): 40 - 100 %  
Measurement technique: TEM

Shape: spheres  
Fraction (Weight): 0 - 50 %  
Measurement technique: TEM

Crystallinity : Crystallinity: crystalline  
Measurement technique: X-ray Diffraction (XRD)

Surface treatment /Coatings : Surface treatment: no

**Ink Jet Magenta E5B 02**

Page 4(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 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.  
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**

- 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  
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>)

**5.3 Advice for firefighters**

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

**Ink Jet Magenta E5B 02**

Page 5(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 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.

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

---

**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. Observe the general rules of industrial 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.

Dust explosion class : St1

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

Requirements for storage areas and containers : Keep only in the original container. Keep container tightly closed.

Further information on storage conditions : Keep container dry.

Advice on common storage : When used and handled as intended, none.

**Ink Jet Magenta E5B 02**

Page 6(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

Keep away from food and drink.

Further information on storage stability : Stable at normal ambient temperature and pressure.

**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 Violet 19<br>CAS-No.: 1047-16-1 | Workers            | Dermal          | Long-term systemic effects | 42 mg/kg bw/day |
| Remarks:DNEL                                      |                    |                 |                            |                 |
|   | Workers            | Inhalation      | Long-term systemic effects | 147 mg/m3       |
| Remarks:DNEL                                      |                    |                 |                            |                 |
|   | Workers            | Inhalation      | Long-term local effects    | 3 mg/m3         |
| Remarks:DNEL                                      |                    |                 |                            |                 |
|   | General population | Dermal          | Long-term systemic effects | 25 mg/kg bw/day |
| Remarks:DNEL                                      |                    |                 |                            |                 |
|   | General population | Oral            | Long-term systemic effects | 25 mg/kg bw/day |
| Remarks:DNEL                                      |                    |                 |                            |                 |

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

| Substance name  | Environmental Compartment | Value |
|---|---------------------------|-------|
| C.I. Pigment Violet 19 - Nanoform<br>CAS-No.: 1047-16-1 |                           |       |
| Remarks:This information is not available.              |                           |       |

**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).

**Ink Jet Magenta E5B 02**

Page 7(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

Skin and body protection : working clothes  
Respiratory protection : Respirator must be worn if exposed to dust.  
Protective measures : Observe the usual precautions for handling chemicals.

---

**SECTION 9: Physical and chemical properties**

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

Physical state : powder  
Colour : red  
Odour : not significant  
Odour Threshold : not required  
Melting point : not determined  
Boiling point : Not applicable  
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 : Not applicable  
Decomposition temperature : > 400 °C  
pH : 5 - 8 (20 °C)  
Concentration: 100 g/l  
Aqueous slurry  
Viscosity  
Viscosity, dynamic : Not applicable  
Viscosity, kinematic : Not applicable  
Solubility(ies)  
Water solubility : (20 °C)  
insoluble  
Vapour pressure : Not applicable  
Relative density : no data available

**Ink Jet Magenta E5B 02**

Page 8(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

|  |   |  |
|--|---|--|
| Density                                | : | 1,47 g/cm <sup>3</sup>                                 |
| Bulk density                           | : | 350 - 400 kg/m <sup>3</sup>                            |
| Relative vapour density                | : | Not applicable   |
| Particle characteristics<br>Assessment | : | Assessment: This substance/ mixture contains nanoforms |
| Particle size                          | : | 5,8 µm   |

**Further particle properties for nanomaterials see section 3**

|                                |   |  |
|--------------------------------|---|--|
| Particle Size Distribution     | : | D10 = 0,023 µm ± 0,013 µm<br>D50 = 0,033 µm ± 0,018 µm<br>D90 = 0,048 µm ± 0,028 µm<br>Measurement technique: TEM  |
| Dustiness                      | : | Number-Based Dustiness Index: 907.412 1/mg<br>Measurement method: DIN EN 17199-3: Continuous drop method<br>SMPS<br><br>Number-Based Dustiness Index: 10.002 1/mg<br>Measurement method: DIN EN 17199-3: Continuous drop method<br>OPS |
| Specific surface area          | : | 100 m <sup>2</sup> /g ± 30 m <sup>2</sup> /g<br>Measurement technique: Brunauer, Emmett and Teller (BET) method using Nitrogen   |
| Shape                          | : | Shape: cubes<br>Fraction (Weight): 40 - 100 %<br>Measurement technique: TEM<br><br>Shape: spheres<br>Fraction (Weight): 0 - 50 %<br>Measurement technique: TEM   |
| Crystallinity                  | : | Crystallinity: crystalline<br>Measurement technique: X-ray Diffraction (XRD)   |
| Surface treatment<br>/Coatings | : | Surface treatment: no  |

**9.2 Other information**

|                      |   |  |
|----------------------|---|--|
| Explosives           | : | Not explosive<br>Not explosive                           |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |
| Flammable solids     | : |  |



**Ink Jet Magenta E5B 02**

Page 9(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

|  |   |  |
|--|---|--|
| Burning number   | : | 2<br>Short flaring up without spreading  |
| Self-ignition  | : | 390 °C   |
| Substances and mixtures, which in contact with water, emit flammable gases | : | The substance or mixture does not emit flammable gases in contact with water.                                  |
| Metal corrosion rate   | : | Not applicable   |
| Dust deflagration index (Kst)  | : | 132 m.b_/s   |
| Dust explosion class   | : | St1  |
| Evaporation rate   | : | Not applicable   |
| Minimum ignition energy  | : | 6 - 13 mJ<br>with inductive electrical resistance<br><br>13 - 30 mJ<br>without 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 : None known.Stable

**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.

**Ink Jet Magenta E5B 02**

Page 10(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

**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, female): > 10.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
Remarks: No significant adverse effects were reported

Acute inhalation toxicity : LC50 (Rat, male): > 3,1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Other  
GLP: no  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: No mortality observed at this dose.

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  
Remarks: By analogy with a product of similar composition

**Skin corrosion/irritation**

**Product:**

Species : Rabbit  
Exposure time : 24 h  
Method : Other  
Result : No skin irritation  
GLP : no data available

**Serious eye damage/eye irritation**

**Product:**

Species : Rabbit  
Exposure time : 24 h  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

**Respiratory or skin sensitisation**

**Product:**

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Dermal  
Species : Mouse  
Method : OECD Test Guideline 429

**Ink Jet Magenta E5B 02**

Page 11(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

Result : Not a skin sensitizer.  
GLP : yes

Test Type : Maximisation Test  
Exposure routes : Dermal  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes  
Remarks : By analogy with a product of similar composition

**Germ cell mutagenicity**

**Product:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 3 - 5000 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: Chinese hamster lung cells  
Concentration: 0,31 - 200 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes  
Remarks: By analogy with a product of similar composition

Test Type: In vitro gene mutation study in mammalian cells  
Test system: mouse lymphoma cells  
Concentration: 78,1 - 5000 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
Remarks: By analogy with a product of similar composition

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

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

**Ink Jet Magenta E5B 02**

Page 12(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Strain: NMRI  
Cell type: Bone marrow cells  
Application Route: oral (gavage)  
Exposure time: single administration  
Dose: 2500 mg/kg  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

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

**Carcinogenicity**

**Product:**

Carcinogenicity - Assessment : No information available.

**Reproductive toxicity**

**Product:**

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Strain: Sprague-Dawley  
Application Route: oral (gavage)  
Dose: 0, 111, 333, 1000 mg/kg bw/d  
General Toxicity - Parent: NOAEL: 1.000 mg/kg body weight  
General Toxicity F1: NOAEL: 1.000 mg/kg body weight  
Method: OECD Test Guideline 422  
GLP: yes

Effects on foetal development : Test Type: Pre-natal  
Species: Rat, female  
Strain: Sprague-Dawley  
Application Route: oral (gavage)  
Dose: 111, 333, 1000 mg/kg bw/d  
General Toxicity Maternal: NOAEL: 1.000 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: 1.000 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

Reproductive toxicity - Assessment : No information available.

**STOT - single exposure**

**Product:**

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

**Ink Jet Magenta E5B 02**

Page 13(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

**STOT - repeated exposure**

**Product:**

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

**Repeated dose toxicity**

**Product:**

Species : Rat, male and female  
NOAEL : 1.000 mg/kg  
Application Route : oral (gavage)  
Exposure time : 91 d  
Number of exposures : Once a day  
Dose : 50 - 200 - 1000 mg/kg  
Control Group : yes  
Method : OECD Test Guideline 408  
GLP : yes  
Remarks : By analogy with a product of similar composition

Species : Rat, male and female  
NOAEL : 1000 mg/kg bw/day  
Application Route : oral (gavage)  
Number of exposures : daily  
Dose : 0, 111, 333, 1000 mg/kg bw/d  
Control Group : yes  
Method : OECD Test Guideline 422  
GLP : yes

**Aspiration toxicity**

**Product:**

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 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 : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
End point: mortality  
Exposure time: 96 h

**Ink Jet Magenta E5B 02**

Page 14(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

Test Type: semi-static test  
Analytical monitoring: no  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: By analogy with a product of similar composition  
The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

NOEC (Daphnia magna (Water flea)): 100 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 10 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: No toxicity at the limit of solubility  
By analogy with a product of similar composition

NOEC (Desmodesmus subspicatus (green algae)): 10 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: No toxicity at the limit of solubility  
By analogy with a product of similar composition

Toxicity to fish (Chronic toxicity) : NOEC:  $\geq$  10 mg/l  
End point: Other  
Exposure time: 28 d  
Species: Danio rerio (zebra fish)  
Test Type: semi-static test  
Analytical monitoring: no

**Ink Jet Magenta E5B 02**

Page 15(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

Method: OECD Test Guideline 215

GLP: yes

Remarks: By analogy with a product of similar composition

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

Toxicity to daphnia and other  
aquatic invertebrates  
(Chronic toxicity)

: NOEC: > 0,02 mg/l

End point: Reproduction rate

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Analytical monitoring: no

Method: OECD Test Guideline 211

GLP: yes

Remarks: No toxicity at the limit of solubility

By analogy with a product of similar composition

Toxicity to microorganisms

: NOEC (activated sludge): > 1.000 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: By analogy with a product of similar composition

Toxicity to soil dwelling  
organisms

: Test Type: artificial soil

LC50: > 1.000 mg/kg

Exposure time: 14 d

End point: mortality

Species: Eisenia fetida (earthworms)

Method: OECD Test Guideline 207

GLP:yes

Remarks: By analogy with a product of similar composition

Test Type: artificial soil

NOEC: 1.000 mg/kg

Exposure time: 14 d

End point: mortality

Species: Eisenia fetida (earthworms)

Method: OECD Test Guideline 207

GLP:yes

Remarks: By analogy with a product of similar composition

Sediment toxicity

: NOEC: 993 mg/kg dry weight (d.w.)

Analytical monitoring: no

Duration: 28 d

Sediment: artificial soil

Species: Lumbriculus variegatus (Worm)

Basis for effect: mortality

Method: OECD 225

GLP: yes

Remarks: By analogy with a product of similar composition

**Ink Jet Magenta E5B 02**

Page 16(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

**Ecotoxicology Assessment**

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

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

**12.2 Persistence and degradability**

**Product:**

Biodegradability : Remarks: slightly soluble

Physico-chemical  
removability : Remarks: Not readily biodegradable.

**12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: Low potential for bioaccumulation (log Pow < 3).

**12.4 Mobility in soil**

**Product:**

Distribution among  
environmental compartments : adsorption  
Medium: Soil  
Remarks: Not expected to adsorb on soil.

**12.5 Results of PBT and vPvB assessment**

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Endocrine disrupting properties**

**Product:**

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

**12.7 Other adverse effects**

**Product:**

Environmental fate and  
pathways : not available

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



**Ink Jet Magenta E5B 02**

Page 17(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

---

**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

---

**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

**Ink Jet Magenta E5B 02**

Page 18(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

import of dangerous chemicals

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.

---

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

**Further information**

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



**Ink Jet Magenta E5B 02**

Page 19(19)

Substance key: SXR004285

Revision Date: 13.12.2022

Version : 7 - 0 / EU

Date of printing : 06.03.2023

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