



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

This Safety Data Sheet adheres to the standards and regulatory requirements of Great Britain and may not meet the regulatory requirements in other countries.

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

1.1. Product identifier

Product name : ARTISTRI™ P5400+ BLACK TEXTILE INK

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

Use of the Substance/Mixture : Printing ink

1.3. Details of the supplier of the safety data sheet

Company : Du Pont de Nemours (Deutschland) GmbH
Hugenottenallee 175
D-63263 Neu-Isenburg
Germany

Telephone : +49 (0) 6102 18-0

Telefax : +49 (0) 6102 18-1224

E-mail address : sds-support@che.dupont.com

1.4. Emergency telephone number

Emergency telephone number : +(44)-870-8200418

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Chronic aquatic toxicity,
Category 3 H412: Harmful to aquatic life with long lasting effects.

Dangerous for the
environment R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in
the aquatic environment.

2.2. Label elements

H412 Harmful to aquatic life with long lasting effects.

Special labelling of certain
substances and mixtures The following percentage of the mixture consists of ingredient(s) with unknown
acute oral toxicity:, 8.7023 %
The following percentage of the mixture consists of ingredient(s) with unknown
acute dermal toxicity:, 8.7023 %
The following percentage of the mixture consists of ingredient(s) with unknown
acute inhalation toxicity:, 8.7023 %
The following percentage of the mixture consists of ingredient(s) with unknown
hazards to the aquatic environment:, 8.7023 %
Contains: 1,2-Benzisothiazol-3(2H)-one / EUH208: May produce an allergic



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

reaction.,

P273
P501

Avoid release to the environment.
Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

May cause eye and skin irritation.
Inhalation may cause central nervous system effects.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Registration number | Classification according to Directive 67/548/EEC | Classification according to Regulation (EU) 1272/2008 (CLP) | Concentration (% w/w) |
|---------------------|--|---|-----------------------|
|---------------------|--|---|-----------------------|

Ethane-1,2-diol (CAS-No.107-21-1) (EC-No.203-473-3)

| | | | |
|--|-------------------------|--|---------------|
| | Xn;R22 R48/22 R67 | Acute Tox. 4; H302 STOT SE 3; H336 STOT RE 2; H373 | >= 1 - < 10 % |
|--|-------------------------|--|---------------|

2,2'-Oxydiethanol (CAS-No.111-46-6) (EC-No.203-872-2)

| | | | |
|--|--------|--------------------|---------------|
| | Xn;R22 | Acute Tox. 4; H302 | >= 1 - < 10 % |
|--|--------|--------------------|---------------|

2-Pyrrolidone (CAS-No.616-45-5) (EC-No.210-483-1)

| | | | |
|--|--------|--------------------|--------------|
| | Xi;R36 | Eye Irrit. 2; H319 | >= 1 - < 3 % |
|--|--------|--------------------|--------------|

**1,2-Benzisothiazol-3(2H)-one (CAS-No.2634-33-5) (EC-No.220-120-9)
(M-Factor : 10[Acute] 10[Chronic])**

| | | | |
|--|--|---|---------------------|
| | Xn;R22 Xi;R38 R41 R43 N;R50/53 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 0.025 - < 0.05 % |
|--|--|---|---------------------|

The above products are compliant to REACH registration obligations; Registration number(s) may not be provided because substance(s) are exempted, not yet registered under REACH or are registered under another regulatory process (biocide uses, plant protection products), etc.

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

SECTION 4: First aid measures

4.1. Description of first aid measures

- General advice : Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.
- Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. Get medical attention.
- Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
- Eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical advice/attention.
- Ingestion : If swallowed, call a poison control centre or doctor immediately. Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms :
- : Inhalation may provoke the following symptoms:, Irritation, Cough
 - : Effects of breathing high concentrations of vapour may include:, Drowsiness, Dizziness
 - : Skin contact may provoke the following symptoms:, Irritation with discomfort or pain, redness or rash, itching or swelling., Allergic reactions
 - : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
 - : Eye contact may provoke the following symptoms:, Irritation, Pain, tearing, swelling, redness, or temporary visual impairment.

4.3. Indication of any immediate medical attention and special treatment needed

- Treatment : No specific intervention is indicated. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media :
- : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 - : Water spray, Dry chemical, Carbon dioxide (CO2)



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Hazardous decomposition products formed under fire conditions. (see also section 10) Avoid breathing decomposition products.

5.3. Advice for firefighters

Special protective equipment for firefighters : Exposure to decomposition products may be a hazard to health. Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Evacuate personnel to safe areas. Stop spill/release if it can be done with minimal risk. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear suitable protective equipment.

6.2. Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Clean contaminated floors and objects thoroughly while observing environmental regulations.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spill. Soak up with inert absorbent material. Collect and contain contaminated absorbent and dike material for disposal. Keep in suitable, closed containers for disposal. Ventilate the area. Clean contaminated floors and objects thoroughly while observing environmental regulations.

Other information : Dispose of in accordance with local regulations.

6.4. Reference to other sections

For personal protection see section 8.
For disposal instructions see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Avoid inhalation, ingestion and contact with skin and eyes. Do not use in areas without adequate ventilation. For personal protection see section 8.

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

7.2. Conditions for safe storage, including any incompatibilities



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Do not reuse empty container.

Other data : Stable under normal conditions.

7.3. Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

If sub-section is empty then no values are applicable.

Components with workplace control parameters

| Type Form of exposure | Control parameters | Update | Basis | Remarks |
|--------------------------|-----------------------|--------|-------|---------|
|--------------------------|-----------------------|--------|-------|---------|

Ethane-1,2-diol (CAS-No. 107-21-1)

| | | | | |
|--------------------------|---------------------|---------|----------|-------------------------------|
| TWA Vapor. | 52 mg/m3 20 ppm | 2007 | EH40 WEL | |
| STEL Vapor. | 104 mg/m3 40 ppm | 2007 | EH40 WEL | |
| SKIN_DES Vapor. | | 2007 | EH40 WEL | Can be absorbed through skin. |
| SKIN_DES Particulate. | | 2007 | EH40 WEL | Can be absorbed through skin. |
| TWA Particulate. | 10 mg/m3 | 2007 | EH40 WEL | |
| TWA | 52 mg/m3 20 ppm | 12 2009 | EU ELV | Indicative |
| STEL | 104 mg/m3 40 ppm | 12 2009 | EU ELV | Indicative |
| SKIN_DES | | 12 2009 | EU ELV | Can be absorbed through skin. |

2,2'-Oxydiethanol (CAS-No. 111-46-6)

| | | | | |
|-----|---------------------|------|----------|--|
| TWA | 101 mg/m3 23 ppm | 2007 | EH40 WEL | |
|-----|---------------------|------|----------|--|

Carbon black (CAS-No. 1333-86-4)



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

| | | | | |
|------|-----------|------|----------|--|
| STEL | 7 mg/m3 | 2007 | EH40 WEL | |
| TWA | 3.5 mg/m3 | 2007 | EH40 WEL | |

Derived No Effect Level (DNEL)

- Ethane-1,2-diol : Type of Application (Use): Workers
Exposure routes: Inhalation
Health Effect: Systemic effects, Long-term exposure
Value: 35 mg/m3
- Ethane-1,2-diol : Type of Application (Use): Workers
Exposure routes: Skin contact
Health Effect: Systemic effects, Long-term exposure
Value: 106 mg/kg body weight (bw) /day

Predicted No Effect Concentration (PNEC)

- Ethane-1,2-diol : Value: 10 mg/l
Compartment: Fresh water
- Ethane-1,2-diol : Value: 1 mg/l
Compartment: Marine water
- Ethane-1,2-diol : Value: 10 mg/l
Compartment: Water
Remarks: Intermittent use/release
- Ethane-1,2-diol : Value: 20.9 mg/kg dry weight (d.w.)
Compartment: Fresh water sediment
- Ethane-1,2-diol : Value: 1 mg/kg dry weight (d.w.)
Compartment: Marine sediment
- Ethane-1,2-diol : Value: 1.53 mg/kg dry weight (d.w.)
Compartment: Soil
- Ethane-1,2-diol : Value: 199.5 mg/l
Compartment: Sewage treatment plants

8.2. Exposure controls

- Engineering measures : Ensure adequate ventilation. Maintain air concentrations below occupational exposure standards. General mechanical ventilation is normally adequate but use local exhaust where necessary to maintain exposures below acceptable limits.
- Eye protection : Wear safety glasses or coverall chemical splash goggles.
- Hand protection : Material: Protective gloves complying with EN 374.
Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Lightweight protective clothing and safety shoes are recommended.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Keep container closed. Keep away from food and drink. Wash hands before eating, drinking, or smoking. Remove contaminated clothing and protective equipment before entering eating areas. Wash contaminated clothing before re-use.
- Respiratory protection : No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Form : liquid
- Colour : black
- Odour : not significant
- pH : 7 - 9
- Boiling point : 100 °C
- Flash point : 93 °C
- Evaporation rate : Slower than Ether

9.2. Other information

- Phys.-chem./other information : No other data to be specially mentioned.

SECTION 10: Stability and reactivity

- 10.1. Reactivity : No dangerous reaction known under conditions of normal use.



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

- 10.2. Chemical stability** : The product is chemically stable under recommended conditions of storage, use and temperature.
- 10.3. Possibility of hazardous reactions** : None reasonably foreseeable. Stable at normal temperatures and storage conditions.
- 10.4. Conditions to avoid** : Avoid extreme heat. Do not freeze.
- 10.5. Incompatible materials** : Acids, bases and strong oxidizing agents
- 10.6. Hazardous decomposition products** : No decomposition if stored and applied as directed.
Under fire conditions:
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
Formaldehyde

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Acute toxicity estimate : > 2,000 mg/kg
Method: Calculation method

- Ethane-1,2-diol
LD50 / Cat : 1,650 mg/kg
- 2,2'-Oxydiethanol
Acute toxicity estimate : 500 mg/kg
- 2-Pyrrolidone
LD50 / Rat : 8,000 mg/kg
Method: OECD Test Guideline 401
- 1,2-Benzisothiazol-3(2H)-one
LD50 / Rat : 670 mg/kg

Acute inhalation toxicity

- Ethane-1,2-diol
no data available
- 2,2'-Oxydiethanol
Acute toxicity estimate / 4 h Rat : > 5 mg/l
- 2-Pyrrolidone
LC50 / 4 h Rat
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)

Revision Date 26.04.2015

Ref. 130000129166

- Ethane-1,2-diol
LD50 / Mouse : > 3,500 mg/kg
- 2,2'-Oxydiethanol
LD50 / Rabbit : 13,300 mg/kg
- 2-Pyrrolidone
LD50 / Rat : > 2,000 mg/kg
Method: OECD Test Guideline 402
- 1,2-Benzisothiazol-3(2H)-one
LD50 / Rabbit : > 2,000 mg/kg

Skin irritation

- Ethane-1,2-diol
Rabbit
Classification: Not classified as irritant
Result: No skin irritation
- 2,2'-Oxydiethanol
Rabbit
Classification: Not classified as irritant
Result: slight irritation
- 2-Pyrrolidone
Rabbit
Classification: Not classified as irritant
Result: No skin irritation
Method: OECD Test Guideline 404
- 1,2-Benzisothiazol-3(2H)-one
Rabbit
Classification: Irritating to skin.
Result: Skin irritation
Information given is based on data obtained from similar substances.

Eye irritation

- Ethane-1,2-diol
Rabbit
Classification: Not classified as irritant
Result: No eye irritation
- 2,2'-Oxydiethanol
Rabbit
Classification: Not classified as irritant
Result: slight irritation
- 2-Pyrrolidone
Rabbit
Classification: Irritating to eyes.
Result: Eye irritation



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

- 1,2-Benzisothiazol-3(2H)-one
Rabbit
Classification: Risk of serious damage to eyes.
Result: Severe eye irritation
Information given is based on data obtained from similar substances.

Sensitisation

- Ethane-1,2-diol
human
Classification: Does not cause skin sensitisation.
Result: Does not cause skin sensitisation.
- 2,2'-Oxydiethanol
Guinea pig
Classification: Not a skin sensitizer.
Result: Did not cause sensitisation on laboratory animals.

human
Classification: Not a sensitizer by inhalation.
Result: Patch test on human volunteers did not demonstrate sensitisation properties.
- 2-Pyrrolidone
Mouse
Classification: Does not cause skin sensitisation.
Result: Does not cause skin sensitisation.
Method: OECD Test Guideline 429
Information given is based on data obtained from similar substances.
- 1,2-Benzisothiazol-3(2H)-one
Mouse Local lymph node test
Classification: May cause sensitisation by skin contact.
Result: Causes sensitisation.

human
Classification: May cause sensitisation by skin contact.
Result: Positive in human patch test.

Repeated dose toxicity

- Ethane-1,2-diol
Oral Rat
Kidney damage
- 2-Pyrrolidone
Oral Rat
NOAEL: 207 mg/kg
Method: OECD Test Guideline 408
Kidney effects
- 1,2-Benzisothiazol-3(2H)-one
Oral Rat



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

No toxicologically significant effects were found.

Mutagenicity assessment

- Ethane-1,2-diol
Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- 2,2'-Oxydiethanol
Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.
- 2-Pyrrolidone
Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- 1,2-Benzisothiazol-3(2H)-one
Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.

Carcinogenicity assessment

- Ethane-1,2-diol
Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
- 2,2'-Oxydiethanol
Not classifiable as a human carcinogen.

Toxicity to reproduction assessment

- Ethane-1,2-diol
No toxicity to reproduction No effects on or via lactation Animal testing showed no reproductive toxicity.
- 2,2'-Oxydiethanol
No toxicity to reproduction Animal testing showed no reproductive toxicity.
- 2-Pyrrolidone
No toxicity to reproduction Animal testing showed no reproductive toxicity.
- 1,2-Benzisothiazol-3(2H)-one
No toxicity to reproduction Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.

Assessment teratogenicity

- Ethane-1,2-diol
Evidence suggests the substance is not a developmental toxin in animals.
- 2,2'-Oxydiethanol
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
- 2-Pyrrolidone



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

- 1,2-Benzisothiazol-3(2H)-one
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Further information

No data is available on the product itself. Information given is based on data on the components.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish

- Ethane-1,2-diol
LC50 / 96 h / Pimephales promelas (fathead minnow): 72,860 mg/l
- 2,2'-Oxydiethanol
LC50 / 96 h / Pimephales promelas (fathead minnow): 75,200 mg/l
LC50 / 48 h / Leuciscus idus (Golden orfe): > 10,000 mg/l
- 1,2-Benzisothiazol-3(2H)-one
LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): 1.6 mg/l

Toxicity to aquatic plants

- Ethane-1,2-diol
ErC50 / 96 h / Pseudokirchneriella subcapitata (green algae): 6,500 mg/l
- 2-Pyrrolidone
ErC50 / 72 h / Desmodesmus subspicatus (green algae): > 500 mg/l
- 1,2-Benzisothiazol-3(2H)-one
EC50 / 72 h / Algae: 0.15 mg/l

Toxicity to aquatic invertebrates

- Ethane-1,2-diol
EC50 / 48 h / Daphnia magna (Water flea): > 100 mg/l
Method: OECD Test Guideline 202
- 2,2'-Oxydiethanol
EC50 / 24 h / Daphnia magna (Water flea): > 10,000 mg/l
- 2-Pyrrolidone
EC50 / 48 h / Daphnia magna (Water flea): > 500 mg/l
Method: Directive 67/548/EEC, Annex V, C.2.



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)

Revision Date 26.04.2015

Ref. 130000129166

- 1,2-Benzisothiazol-3(2H)-one
EC50 / 48 h / Aquatic invertebrates: 0.047 mg/l

12.2. Persistence and degradability

Biodegradability

- Ethane-1,2-diol
/ 10 d
Biodegradation: 90 - 100 %
Method: OECD Test Guideline 301
Readily biodegradable
- 2,2'-Oxydiethanol
/ 28 d
Biodegradation: 90 %
Readily biodegradable
- 2-Pyrrolidone
Biodegradable
Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

- Ethane-1,2-diol
Bioaccumulation is unlikely.
- 2,2'-Oxydiethanol
Bioconcentration factor (BCF): 10 - 180
Bioaccumulation is unlikely.
- 2-Pyrrolidone
Bioaccumulation is unlikely.
- 1,2-Benzisothiazol-3(2H)-one
Bioaccumulation is unlikely.

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

no data available

12.6. Other adverse effects

Additional ecological information

No data is available on the product itself. Information given is based on data on the components.



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Product : Dispose of in accordance with the European Directives on waste and hazardous waste. Never place unused product down any indoor or out door drain.
- Contaminated packaging : Do not reuse empty container. Contaminated/not cleaned containers should be treated/handled like product waste. Dispose of container properly. Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards.

SECTION 14: Transport information

ADR

- 14.1. UN number: Not applicable
14.2. UN proper shipping name: Not applicable
14.3. Transport hazard class(es): Not applicable
14.4. Packing group: Not applicable
14.5. Environmental hazards: none
14.6. Special precautions for user:
Not classified as dangerous in the meaning of transport regulations.

IATA_C

- 14.1. UN number: Not applicable
14.2. UN proper shipping name: Not applicable
14.3. Transport hazard class(es): Not applicable
14.4. Packing group: Not applicable
14.5. Environmental hazards: none
14.6. Special precautions for user:
Not classified as dangerous in the meaning of transport regulations.

IMDG

- 14.1. UN number: Not applicable
14.2. UN proper shipping name: Not applicable
14.3. Transport hazard class(es): Not applicable
14.4. Packing group: Not applicable
14.5. Environmental hazards: none
14.6. Special precautions for user:
Not classified as dangerous in the meaning of transport regulations.

- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

- Other regulations : Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.
Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical Safety Assessment



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Text of R-phrases mentioned in Section 3

| | |
|--------|--|
| R22 | Harmful if swallowed. |
| R36 | Irritating to eyes. |
| R38 | Irritating to skin. |
| R41 | Risk of serious damage to eyes. |
| R43 | May cause sensitisation by skin contact. |
| R48/22 | Harmful: danger of serious damage to health by prolonged exposure if swallowed. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R67 | Vapours may cause drowsiness and dizziness. |

Full text of H-Statements referred to under section 3.

| | |
|------|--|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Abbreviations and acronyms

| | |
|---------|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute toxicity estimate |
| CAS-No. | Chemical Abstracts Service number |
| CLP | Classification, Labelling and Packaging |
| EbC50 | Concentration at which 50% reduction of biomass is observed |
| EC50 | Median effective concentration |
| EN | European Norm |
| EPA | Environmental Protection Agency |
| ErC50 | Concentration at which a 50% inhibition of growth rate is observed |
| EyC50 | Concentration at which 50 % inhibition of yield is observed |
| IATA_C | International Air Transport Association (Cargo) |
| IBC | International Bulk Chemical Code |
| ICAO | International Civil Aviation Organization |
| ISO | International Standard Organization |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median Lethal Concentration |
| LD50 | Median Lethal Dose |
| LOEC | Lowest Observed Effect Concentration |
| LOEL | Lowest observed effect level |
| MARPOL | International Convention for the Prevention of Marine Pollution from Ships |



ARTISTRI™ P5400+ BLACK TEXTILE INK

Version 3.0 (replaces: Version 2.0)
Revision Date 26.04.2015

Ref. 130000129166

| | |
|--------|--|
| n.o.s. | Not Otherwise Specified |
| NOAEC | No Observed Adverse Effect Concentration |
| NOAEL | No observed adverse effect level |
| NOEC | No Observed Effect Concentration |
| NOEL | No Observed Effect Level |
| OECD | Organisation for Economic Co-operation and Development |
| OPPTS | Office of Prevention, Pesticides and Toxic Substances |
| PBT | Persistent, Bioaccumulative and Toxic |
| STEL | Short term exposure limit |
| TWA | Time Weighted Average (TWA): |
| vPvB | very Persistent and very Bioaccumulative |

Further information

The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company.

Significant change from previous version is denoted with a double bar.

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