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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

: ARTISTRI™ P5910 WHITE TEXTILE INK Product name

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

: Du Pont de Nemours (Deutschland) GmbH Company

> 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

Specific target organ toxicity -

repeated exposure, Category

Chronic aquatic toxicity,

Category 3

H412: Harmful to aquatic life with long lasting effects.

H373: May cause damage to organs through prolonged or repeated exposure.

Harmful R48/22: Harmful: danger of serious damage to health by prolonged exposure if

swallowed.

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

environment the aquatic environment.

2.2. Label elements

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Warning

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Special labelling of certain substances and mixtures

Contains: 1,2-Benzisothiazol-3(2H)-one / EUH208: May produce an allergic

reaction.,

The following percentage of the mixture consists of ingredient(s) with unknown

acute oral toxicity: 12.1765 %

The following percentage of the mixture consists of ingredient(s) with unknown

acute dermal toxicity: 12.1765 %

The following percentage of the mixture consists of ingredient(s) with unknown

acute inhalation toxicity: 12.1765 %

The following percentage of the mixture consists of ingredient(s) with unknown

hazards to the aquatic environment: 12.1765 %

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

P314 Get medical advice/ attention if you feel unwell.

P501 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

| 0:=: :::::::::::::::::::::::::::::::::: | | | |
|---|----------------------|-----------------------------|---------------|
| Registration number | Classification | Classification according to | Concentration |
| | according to | Regulation (EU) 1272/2008 | (% w/w) |
| | Directive 67/548/EEC | (CLP) | |

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

| Xn;R22 | Acute Tox. 4; H302 | >= 10 - < 15 % |
|--------|--------------------|----------------|
| R48/22 | STOT SE 3; H336 | |

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| | R67 | STOT RE 2; H373 | |
|----------------------------|-------------------|-------------------------|---------------------|
| 1,2-Benzisothiazol-3(2H)-c | ne (CAS-No.2634-3 | 3-5) (EC-No.220-120-9) | |
| (M-Factor: 10[Acute] 10[0 | Chronic]) | | |
| | Xn;R22 | Acute Tox. 4; H302 | >= 0.025 - < 0.05 % |
| | Xi;R38 | Skin Irrit. 2; H315 | |
| | R41 | Eye Dam. 1; H318 | |
| | R43 | Skin Sens. 1; H317 | |
| | N:R50/53 | Aquatic Acute 1; H400 | |
| | 1 ' | Aquatic Chronic 1; H410 | |

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.

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

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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)

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

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

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.

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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

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 | | Control parameters | Update | Regulatory basis | Remarks |
|--------------|--|--------------------|--------|------------------|---------|
|--------------|--|--------------------|--------|------------------|---------|

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

| Time Weighted Average (TWA): Vapor. | 52 mg/m3 20 ppm | 2007 | UK. EH40 Workplace Exposure Limits (WELs) | |
|-------------------------------------|---------------------|------|---|-------------------------------|
| Short term exposure limit Vapor. | 104 mg/m3 40 ppm | 2007 | UK. EH40 Workplace Exposure Limits (WELs) | |
| Skin designation: Vapor. | | 2007 | UK. EH40 Workplace Exposure Limits (WELs) | Can be absorbed through skin. |
| Skin designation: Particulate. | | 2007 | UK. EH40 Workplace Exposure Limits (WELs) | Can be absorbed through skin. |

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| Time Weighted Average (TWA): Particulate. | 10 mg/m3 | 2007 | UK. EH40 Workplace Exposure Limits (WELs) | |
|---|---------------------|---------|--|-------------------------------|
| Time Weighted Average (TWA): | 52 mg/m3 20 ppm | 12 2009 | EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU | Indicative |
| Short term exposure limit | 104 mg/m3 40 ppm | 12 2009 | EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU | Indicative |
| Skin designation: | | 12 2009 | EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU | Can be absorbed through skin. |

Titanium dioxide (CAS-No. 13463-67-7)

| Time Weighted Average (TWA): Inhalable | 10 mg/m3 | 2007 | UK. EH40 Workplace Exposure Limits (WELs) | |
|--|----------|------|---|--|
| Time Weighted Average (TWA): Respirable. | 4 mg/m3 | 2007 | UK. EH40 Workplace Exposure Limits (WELs) | |

Glycerol (CAS-No. 56-81-5)

| Time Weighted Average | 10 mg/m3 | 2007 | UK. EH40 Workplace Exposure Limits | |
|-----------------------|----------|------|------------------------------------|--|
| (TWA): | | | (WELs) | |
| Mist. | | | | |

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

: 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

: Value: 1 mg/l

Compartment: Marine water

: Value: 10 mg/l Compartment: Water

Remarks: Intermittent use/release

: Value: 20.9 mg/kg dry weight (d.w.) Compartment: Fresh water sediment

: Value: 1 mg/kg dry weight (d.w.) Compartment: Marine sediment

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: Value: 1.53 mg/kg dry weight (d.w.)

Compartment: Soil

: 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 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 : white

Odour : not significant

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pH : 6-9

Freezing point : -13 °C

Boiling point : 100 °C

Flash point : 100 °C

Ignition temperature : 401 °C

Vapour pressure : 1.0 hPa

Relative density : 1.12

Water solubility : soluble

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.

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 : No decomposition if stored and applied as directed.

decomposition products Under fire conditions:

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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

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LD50 / Cat: 1,650 mg/kg

1,2-Benzisothiazol-3(2H)-one LD50 / Rat: 670 mg/kg

Acute inhalation toxicity

 Ethane-1,2-diol no data available

Acute dermal toxicity

• Ethane-1,2-diol

LD50 / Mouse : > 3,500 mg/kg

 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

• 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

• 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.

 1,2-Benzisothiazol-3(2H)-one Mouse Local lymph node test

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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

• 1,2-Benzisothiazol-3(2H)-one

Oral Rat

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.

• 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.

Toxicity to reproduction assessment

• Ethane-1,2-diol

No toxicity to reproduction No effects on or via lactation 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.

• 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.

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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

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

 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

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

12.3. Bioaccumulative potential

Bioaccumulation

- Ethane-1,2-diol Bioaccumulation is unlikely.
- 1,2-Benzisothiazol-3(2H)-one Bioaccumulation is unlikely.

12.4. Mobility in soil

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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.

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 applicable14.2. UN proper shipping name:Not applicable14.3. Transport hazard class(es):Not applicable14.4. 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 applicable14.2. UN proper shipping name:Not applicable14.3. Transport hazard class(es):Not applicable14.4. 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

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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

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. 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.
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

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EyC50 Concentration at which 50 % inhibition of yield is observed

IATA_C International Air Transport Association (Cargo)

IBCInternational Bulk Chemical CodeICAOInternational Civil Aviation OrganizationISOInternational Standard OrganizationIMDGInternational 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

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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