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# ARTISTRI™ P5200+ MAGENTA PIGMENT INK

Version 3.0 (replaces: Version 2.0)

Revision Date 26.04.2015 Ref. 130000128531

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<sup>™</sup> P5200+ MAGENTA PIGMENT 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:, 8.3564 %

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

acute dermal toxicity:, 8.3564 %

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

acute inhalation toxicity:, 8.3564 %

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

hazards to the aquatic environment:, 8.3564 %

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

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reaction.,

P273 Avoid release to the environment.

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

Registration number	Classification according to Directive 67/548/EEC	Concentration (% w/w)		
thane-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-N	o.111-46-6) (EC-No.203-87	2-2)		
	Xn;R22	Acute Tox. 4; H302	>= 1 - < 10 %	
2-Pvrrolidone (CAS-No.61	  6-45-5) (EC-No.210-483-1)		-L	
. Tyrromaono (erto more	Xi;R36	Eye Irrit. 2; H319	>= 1 - < 3 %	
2-(2-(2-Butoxyethoxy)eth	oxy)ethanol (CAS-No.143-2	22-6) (FC-No 205-592-6)	<u> </u>	
1-(2-(2-Butoxyctnoxy)ctno	Xi;R41	Eye Dam. 1; H318	>= 1 - < 3 %	
	one (CAS-No.2634-33-5) (E	C-No.220-120-9)	<u> </u>	
(M-Factor: 10[Acute] 10[		T. 4 11000	0.005 .0.05	
	Xn;R22 Xi:R38	Acute Tox. 4; H302 Skin Irrit 2: H315	>= 0.025 - < 0.05	

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 %

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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

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

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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

for firefighters

Special protective equipment : 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

Prevent further leakage or spillage if safe to do so. Prevent product from **Environmental precautions** 

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.

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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

Type

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

Control

Update

Components with workplace control parameters

Form of exposure	parameters	-		
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.

**Basis** 

Remarks

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

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TWA	1	101 mg/m3	2007	EH40 WEL
		23 ppm		

#### **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

: 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

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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 : no data available

Odour : not significant

pH : 7.0 - 9.0

Freezing point : -13 °C

Boiling point : 100 °C

Flash point : 93 °C

Ignition temperature : 401 °C

Vapour pressure : 0.5 hPa

Relative density : 1.05

Water solubility : soluble

Evaporation rate : Slower than Ether

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#### 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

decomposition products

: No decomposition if stored and applied as directed.

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

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

2-(2-(2-Butoxyethoxy)ethoxy)ethanol

LD50 / Rat: 5,170 mg/kg

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

Acute inhalation toxicity

 Ethane-1,2-diol no data available

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• 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

• 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

• 2-(2-(2-Butoxyethoxy)ethoxy)ethanol

LD50 / Rabbit : 3,540 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

• 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

• 2-(2-(2-Butoxyethoxy)ethoxy)ethanol

Rabbit

Classification: Not classified as irritant

Result: No skin irritation Method: Draize Test

• 1,2-Benzisothiazol-3(2H)-one

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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

• 2-(2-(2-Butoxyethoxy)ethoxy)ethanol

Rabbit

Classification: Risk of serious damage to eyes.
Result: Risk of serious damage to eyes.
Matheda OFOR Text Oxidaling 405

Method: OECD Test Guideline 405

Information given is based on data obtained from similar substances.

• 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.

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Result: Does not cause skin sensitisation.

Method: OECD Test Guideline 429

Information given is based on data obtained from similar substances.

• 2-(2-(2-Butoxyethoxy)ethoxy)ethanol

Guinea pig

Classification: Does not cause skin sensitisation. Result: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

Information given is based on data obtained from similar substances.

Guinea pig

Classification: Does not cause respiratory sensitisation.

Result: Does not cause respiratory sensitisation.

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

• 2-(2-(2-Butoxyethoxy)ethoxy)ethanol

Oral Rat

NOAEL: 320 mg/kg LOAEL: 1,270 mg/kg

Method: OECD Test Guideline 408

No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

• 1,2-Benzisothiazol-3(2H)-one

Oral Rat

No toxicologically significant effects were found.

## Mutagenicity assessment

• Ethane-1,2-diol

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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.

#### 2-(2-(2-Butoxyethoxy)ethoxy)ethanol

Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects. Information given is based on data obtained from similar substances.

#### • 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.

## • 2-(2-(2-Butoxyethoxy)ethoxy)ethanol

Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects. Information given is based on data obtained from similar substances.

### 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.

#### • 2-(2-(2-Butoxyethoxy)ethoxy)ethanol

No toxicity to reproduction Animal testing showed no reproductive toxicity. Information given is based on data obtained from similar substances.

#### • 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

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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

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

- 2-(2-(2-Butoxyethoxy)ethoxy)ethanol
   Animal testing showed no developmental 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

• 2-(2-(2-Butoxyethoxy)ethoxy)ethanol

LC50 / 96 h / Leuciscus idus (Golden orfe): 2,200 mg/l

Method: DIN 38412

• 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

2-(2-(2-Butoxyethoxy)ethoxy)ethanol

ErC50 / 72 h / Desmodesmus subspicatus (green algae): > 612 mg/l

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 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.

2-(2-(2-Butoxyethoxy)ethoxy)ethanol
 EC50 / 48 h / Daphnia magna (Water flea): 2,210 mg/l

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

### Chronic toxicity to fish

2-(2-(2-Butoxyethoxy)ethoxy)ethanol
 NOEC / 21 d / Danio rerio (zebra fish): > 174.6 mg/l
 Method: OECD Test Guideline 204
 Information given is based on data obtained from similar substances.

#### Chronic toxicity to aquatic Invertebrates

2-(2-(2-Butoxyethoxy)ethoxy)ethanol
 NOEC / 21 d / Daphnia magna (Water flea): > 174.6 mg/l
 Method: OECD Test Guideline 211
 Information given is based on data obtained from similar substances.

#### 12.2. Persistence and degradability

#### Biodegradability

Ethane-1,2-diol
 / 10 d
 Biodegradation: 90 - 100 %
 Method: OECD Test Guideli

Method: OECD Test Guideline 301 Readily biodegradable

,

2,2'-Oxydiethanol

/ 28 d

Biodegradation: 90 % Readily biodegradable

• 2-Pyrrolidone

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Biodegradable Readily biodegradable

 2-(2-(2-Butoxyethoxy)ethoxy)ethanol Method: OECD Test Guideline 301D rapidly 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.

## **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**

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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 Not applicable 14.2. UN proper shipping name: 14.3. Transport hazard class(es): Not applicable 14.4. Packing group: Not applicable none

14.5. Environmental hazards:

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

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.

May cause sensitisation by skin contact. R43

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

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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

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**

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