

## Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: INKU-DECO-500-BK CART. 500 CC

Version: 13 / GB

Date revised: 13.07.2020

Substance number: 3636004300008

Replaces Version: 12 / GB

Print date: 14.07.20

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

### **1.1. Product identifier**

INKU-DECO-500-BK CART. 500 CC

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

#### **Use of the substance/preparation**

Digital ink

#### **Identified Uses**

SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4	Chemical production where opportunity for exposure arises
PROC5	Mixing or blending in batch processes
PROC8a	Transfer of substance or mixture (charging and discharging) at nondedicated facilities
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC10	Roller application or brushing
PROC11	Non industrial spraying
PROC13	Treatment of articles by dipping and pouring
PROC19	Manual activities involving hand contact
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8d	Wide dispersive outdoor use of processing aids in open systems

#### **Uses advised against**

SU21 Consumer uses: Private households (= general public = consumers)

### **1.3. Details of the supplier of the safety data sheet**

#### **Address/Manufacturer**

ROLAND DG EUROPE HOLDINGS B.V.

Prof. J.H. Bavincklaan 2

1183AT Amstelveen

Niederlande

Telephone no. +31 20 723 36 70

E-mail address of deu-demand-planning@rolanddg.com

person responsible

for this SDS

Information provided Department product safety  
by / telephone

### **1.4. Emergency telephone number**

24h: +49 228 19240 (Giftnotruf Bonn) , +32 14 57 59 11 (Roland DG Benelux NV) (Only available during office hours.)

## **SECTION 2: Hazards identification \*\*\***

### **2.1. Classification of the substance or mixture**

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## Classification (Regulation (EC) No. 1272/2008)

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Eye Irrit. 2 H319

Skin Sens. 1A H317

## 2.2. Label elements

### Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Warning

#### Hazard statements

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

#### Precautionary statements

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

P264.1 Wash hands thoroughly after handling.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

P337+P313 If eye irritation persists: Get medical advice / attention.

#### Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains \*\*\* 2-Methyl-2H-isothiazol-3-one; 1,2-Benzisothiazol-3(2h)-one;  
2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated

## 2.3. Other hazards

No special hazards have to be mentioned.

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

### 3.2. Mixtures

#### Chemical characterization

Digital ink based on water

#### Hazardous ingredients \*\*\*

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

CAS No. 112-34-5

EINECS no. 203-961-6

Concentration >= 10 < 25 %

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319

##### 3-Methoxy-3-methylbutanol

CAS No. 56539-66-3

EINECS no. 260-252-4

Registration no. 01-2119976333-33

Concentration >= 1 < 10 %

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Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319

### **2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated**

CAS No. 9014-85-1

EINECS no. 500-022-5

Registration no. 01-2119954393-33

Concentration >= 0,1 < 1 %

Classification (Regulation (EC) No. 1272/2008)

Eye Dam. 1 H318

Aquatic Chronic 3 H412

Skin Sens. 1B H317

### **1,2-Benzisothiazol-3(2h)-one**

CAS No. 2634-33-5

EINECS no. 220-120-9

Concentration < 0,05 %

Classification (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400

Skin Sens. 1 H317

Acute Tox. 4 H302

Skin Irrit. 2 H315

Eye Dam. 1 H318

Acute Tox. 2 H330

Aquatic Chronic 2 H411

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Sens. 1 H317 >= 0,05

### **2-Methyl-2H-isothiazol-3-one**

CAS No. 2682-20-4

EINECS no. 220-239-6

Concentration >= 0,0015 < 0,01 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3 H301

Acute Tox. 2 H330

Skin Corr. 1B H314

Eye Dam. 1 H318

Aquatic Acute 1 H400

Skin Sens. 1A H317

Aquatic Chronic 1 H410

Acute Tox. 3 H311

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Sens. 1A H317 >= 0,0015

Aquatic Acute 1 H400 M = 10

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

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### **After inhalation**

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

### **After skin contact**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

### **After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

### **After ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Until now no symptoms known so far.

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

### **Hints for the physician / treatment**

Treat symptomatically

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray/mist, Not be used for safety reasons: water jet

### **5.2. Special hazards arising from the substance or mixture**

In the event of fire the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); dense black smoke

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Cool closed containers exposed to fire with water. 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 breathing vapours. Refer to protective measures listed in Sections 7 and 8.

### **6.2. Environmental precautions**

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

### **6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

### **6.4. Reference to other sections**

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

## **SECTION 7: Handling and storage**

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**7.1. Precautions for safe handling****Advice on safe handling**

Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking shall be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.

**Classification of fires / temperature class / Ignition group / Dust explosion class**

Temperature class T3

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in accordance with national regulation

**Hints on storage assembly**

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

**Further information on storage conditions**

Store between 15 and 30 °C in a dry, well ventilated place. Keep container tightly closed. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**7.3. Specific end use(s)**

Digital ink

**SECTION 8: Exposure controls/personal protection \*\*\*****8.1. Control parameters****Exposure limit values****2-(2-Butoxyethoxy)ethanol**

List	EH40			
Type	WEL			
Value	67.5	mg/m <sup>3</sup>	10	ppm(V)
Short term exposure limit	101.2	mg/m <sup>3</sup>	15	ppm(V)
Status: 2011				

**Derived No/Minimal Effect Levels (DNEL/DMEL) \*\*\*****3-Methoxy-3-methylbutanol**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	18	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	6,25	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	

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Concentration	4,4	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	3,1	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	2,5	mg/kg/d
<b>2-(2-Butoxyethoxy)ethanol</b>		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	101,2	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	20	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	67,5	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	67,5	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	50,6	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	

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Concentration	10	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	34	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	34	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	1,25	mg/kg/d

## 2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	24,7	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	7	mg/person/ d

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	4,35	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	2,5	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	

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Mode of action	Systemic effects	
Concentration	2,5	mg/kg/d

**Predicted No Effect Concentration (PNEC) \*\*\*****2-(2-Butoxyethoxy)ethanol**

Type of value	PNEC	
Type	Freshwater	
Concentration	1	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,1	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	3,9	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	4	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,4	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,4	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	200	mg/l

**2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,036	mg/l
Type of value	PNEC	
Type	Marine	
Concentration	0,004	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	6,8	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,29	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,029	mg/kg

**8.2. Exposure controls**



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**Exposure controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Respiratory protection**

Not necessary.

**Hand protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm

Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

**Eye protection**

Use safety eyewear designed to protect against splash of liquids.

**Body protection**

Not applicable.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**Form** Liquid

**Colour** black

**Odour** mild

**Odour threshold**

Remarks No data available

**pH value**

Remarks not determined

**Melting point**

Remarks not determined

**Freezing point**

Remarks not determined

**Initial boiling point and boiling range**

Value appr. 100 °C

Pressure 1.013 hPa

Source Literature value

**Flash point**

Value > 100 °C

Method ASTM D 6450 (CCCFP)

**Evaporation rate (ether = 1) :**

Remarks not determined

**Flammability (solid, gas)**

Not applicable

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**Upper/lower flammability or explosive limits**

Lower explosion limit	appr. 0,9	%(V)
Upper explosion limit	appr. 13,1	%(V)
Source	Literature value	

**Vapour pressure**

Remarks	not determined
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**Vapour density**

Remarks	not determined
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**Density**

Value	1,025		g/cm <sup>3</sup>
Temperature	20	°C	
Method	DIN EN ISO 2811		

**Solubility in water**

Remarks	miscible
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**Partition coefficient: n-octanol/water**

Remarks	Not applicable
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**Ignition temperature**

Value	appr. 225	°C
Source	Literature value	

**Viscosity****dynamic**

Value	appr. 3	to	5	mPa.s
Temperature	20	°C		

**Explosive properties**

evaluation	no
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**Oxidising properties**

evaluation	None known
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**9.2. Other information****Other information**

The physical specifications are approximate values and refer to the used safety relevant component(s).

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (see section 7).

**10.3. Possibility of hazardous reactions**

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**10.4. Conditions to avoid**

When exposed to high temperatures may produce hazardous decomposition products.

**10.5. Incompatible materials**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.6. Hazardous decomposition products**

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture).

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity**

Remarks Based on available data, the classification criteria are not met.

#### **Acute oral toxicity (Components)**

##### **1,2-Benzisothiazol-3(2h)-one**

Species	rat		
LD50		1193	mg/kg

##### **2-(2-Butoxyethoxy)ethanol**

Species	rat		
LD50		4500	mg/kg

#### **Acute dermal toxicity**

Remarks Based on available data, the classification criteria are not met.

#### **Acute dermal toxicity (Components)**

##### **1,2-Benzisothiazol-3(2h)-one**

Species	rat		
LD50		4115	mg/kg

##### **2-(2-Butoxyethoxy)ethanol**

Species	rabbit		
LD50		2700	mg/kg

#### **Acute inhalational toxicity**

Remarks Based on available data, the classification criteria are not met.

#### **Skin corrosion/irritation**

Remarks Based on available data, the classification criteria are not met.

#### **Serious eye damage/irritation**

evaluation	irritant
Remarks	The classification criteria are met.

#### **Sensitization**

evaluation	May cause sensitization by skin contact.
Remarks	The classification criteria are met.

#### **Mutagenicity**

Remarks Based on available data, the classification criteria are not met.

#### **Reproductive toxicity**

Remarks Based on available data, the classification criteria are not met.

#### **Carcinogenicity**

Remarks Based on available data, the classification criteria are not met.

#### **Specific Target Organ Toxicity (STOT)**

##### **Single exposure**

Remarks Based on available data, the classification criteria are not met.

##### **Repeated exposure**

Remarks Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Experience in practice**

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation

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and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. May cause an allergic skin reaction. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### Other information

There are no data available on the mixture itself.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### General information

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

#### Fish toxicity (Components)

##### 1,2-Benzisothiazol-3(2h)-one

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )	
LC50	2,18	mg/l
Duration of exposure	96	h

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

Species	Bluegill ( <i>Lepomis macrochirus</i> )	
	1300	mg/l
Duration of exposure	96	h

#### Daphnia toxicity (Components)

##### 1,2-Benzisothiazol-3(2h)-one

Species	Daphnia magna	
EC50	2,94	mg/l
Duration of exposure	48	h

#### Algae toxicity (Components)

##### 1,2-Benzisothiazol-3(2h)-one

Species	Pseudokirchneriella subcapitata	
ErC50	0,11	mg/l
Duration of exposure	72	h

### 12.2. Persistence and degradability

#### General information

There are no data available on the mixture itself.

### 12.3. Bioaccumulative potential

#### General information

There are no data available on the mixture itself.

#### Partition coefficient: n-octanol/water

Remarks	Not applicable
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### 12.4. Mobility in soil

#### General information

There are no data available on the mixture itself.

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**12.5. Results of PBT and vPvB assessment****General information**

There are no data available on the mixture itself.

**12.6. Other adverse effects****General information**

There are no data available on the mixture itself.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Do not allow to enter drains or water courses.

Wastes and emptied containers should be classified in accordance with relevant national regulation.

The European Waste Catalogue classification of this product, when disposed of as waste is

EWC waste code 08 03 12\* waste ink containing dangerous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information contact your local waste authority.

**Disposal recommendations for packaging**

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Not emptied containers are hazardous waste (waste code number 150110).

**SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
<b>14.1. UN number</b>	The product does not constitute a hazardous substance in land transport.-	The product does not constitute a hazardous substance in sea transport.-	The product does not constitute a hazardous substance in air transport.-
<b>14.2. UN proper shipping name</b>	-	-	-
<b>14.3. Transport hazard class(es)</b>	-	-	-
Subsidiary risk		-	-
Label			
<b>14.4. Packing group</b>	-	-	-
Transport category	0		
<b>14.5. Environmental hazards</b>	-	no	-

**Information for all modes of transport****14.6. Special precautions for user**

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Replaces Version: 12 / GB

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Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### Other information

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

no

## SECTION 15: Regulatory information

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

#### VOC

VOC (EU)

20,05

%

VOC (EU)

205,5

g/l

#### Other information

All components are contained in the TSCA inventory or exempted.

All components are contained in the DSL inventory.

### 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### Hazard statements listed in Chapter 3

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### CLP categories listed in Chapter 3

Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
Skin Sens. 1B	Skin sensitization, Category 1B

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a

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guarantee for any specific product properties and shall not establish a legally valid relationship.  
The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.