

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH Annex II) and its amendments



## JETI UV Premium Flatbed Ink - Magenta

SUBID : 000001011579

Version 1  
Revision Date 24.02.2015

Print Date 28.09.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Identification of the substance or mixture:

Product name : JETI UV Premium Flatbed Ink - Magenta  
REACH Registration No : Registration numbers of the individual components: see section 3.2, if applicable.

#### 1.2 Use of the substance/mixture:

Identified relevant uses : Printer ink  
Uses advised against : Do not use for products which come into direct contact with the skin. Do not use for products which come into direct contact with food stuffs. Do not use for private purposes (household).

#### 1.3 Company/undertaking identification

Agfa-Gevaert Ltd.  
Vantage West  
Great West Road  
Brentford, Middlesex TW8 9AX  
United Kingdom  
Tel. : +44 (0)20 8 231 4616  
Fax : +44 (0)20 8 231 4951  
E-mail: electronic.sds@agfa.com

#### 1.4 Emergency telephone

Emergency telephone number (Belgium) : +32 3 4443333 (24h/24h)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture:

Regulation(EC) No 1272/2008 (CLP)	
• Hazard classes	Serious eye irritation
Hazard categories	Category 2
Hazard statements	H319
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
• Hazard classes	Skin sensitizer
Hazard categories	Category 1B
Hazard statements	H317
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
• Hazard classes	Specific target organ toxicity - repeated exposure
Hazard categories	Category 1
Hazard statements	H372
Target organs	Liver
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
• Hazard classes	Skin irritation
Hazard categories	Category 2
Hazard statements	H315

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Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
• Hazard classes	Specific target organ toxicity - single exposure
Hazard categories	Category 3
Hazard statements	H335
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
• Hazard classes	Toxic to reproduction
Hazard categories	Category 2
Hazard statements	H361fd
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
• Hazard classes	Chronic hazards to the aquatic environment
Hazard categories	Category 3
Hazard statements	H412
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.

### 67/548/EEC or 1999/45/EC

Hazards characteristics	Harmful
R-phrases(s)	R48/21, R43, R36/37/38, R62, R52/53

Full text of each relevant R and H phrase is listed in section 16.

### 2.2 Label elements:

Hazardous components which must be listed on the label :

- CAS-No. : 2235-00-9 N-vinyl caprolactam
- 75980-60-8 Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-
- 66492-51-1 2-propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester

Symbol(s)



GHS07



GHS08

Signal word : DANGER  
Hazard statements : H315

Causes skin irritation.

H319

Causes serious eye irritation.

H317

May cause an allergic skin reaction.

H372

Causes damage to organs through prolonged or repeated exposure.

H335

May cause respiratory irritation.

H361fd

Suspected of damaging fertility. Suspected of damaging the unborn child.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements: prevention : P201

Obtain special instructions before use.

P260

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

P280

Wear protective gloves/protective clothing/eye

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Precautionary statements: response

P281 : P337+P313 protection/face protection. Use personal protective equipment as required. If eye irritation persists: Get medical advice/attention.

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

### 2.3 Other hazards:

This product does not meet the criteria concerning PBT or vPvB substances as described in Annex XIII of the REACH regulation (1907/2006 EC)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Mixture related information:

Printer ink, mainly consisting of:

### 3.2 Hazard ingredients:

The hazard and labelling information in this section is that of the individual ingredients. The corresponding information relative to this product as supplied is given in section 2.1.

#### Hazardous components in the meaning of regulation(EC) No 1272/2008 (CLP)

- N-vinyl caprolactam Concentration [%] : 20.0 - 30.0  
CAS-No. : 2235-00-9  
EINECS-No. : 218-787-6  
REACH Registration No : 01-2119977109-27-XXXX  
Hazard classes : Acute toxicity Oral, Serious eye irritation, Skin sensitizer, Specific target organ toxicity - repeated exposure Inhalation  
Hazard categories : Category 4, Category 2, Category 1B, Category 1  
Hazard statements : H302, H319, H317, H372
- 2-propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester Concentration [%] : 20.0 - 30.0  
CAS-No. : 66492-51-1  
EINECS-No. : 266-380-7  
REACH Registration No : 01-2119976303-36-XXXX  
Hazard classes : Skin irritation, Skin sensitizer, Chronic hazards to the aquatic environment  
Hazard categories : Category 2, Category 1B, Category 2  
Hazard statements : H315, H317, H411
- Acrylic acid, monoalkyl, aryl or alkyl aryl (Esters of NOS) Concentration [%] : 20.0 - 30.0  
REACH Registration No :
- Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- Concentration [%] : 1.0 - 5.0  
CAS-No. : 75980-60-8  
EINECS-No. : 278-355-8  
REACH Registration No : 01-2119972295-29-XXXX  
Hazard classes : Toxic to reproduction, Chronic hazards to the aquatic environment, Skin sensitizer  
Hazard categories : Category 2, Category 2, Category 1  
Hazard statements : H361f, H411, H317

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- phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide  
Concentration [%] : 1.0 - 5.0  
CAS-No. : 162881-26-7  
Index-No. : 015-189-00-5  
REACH Registration No : Transition time according to REACH regulation article 23 is still not expired.  
Hazard classes : Skin sensitizer, Chronic hazards to the aquatic environment  
Hazard categories : Category 1A, Category 4  
Hazard statements : H317, H413
- trimethylolpropane triacrylate  
Concentration [%] : 1.0 - 5.0  
CAS-No. : 15625-89-5  
Index-No. : 607-111-00-9  
EINECS-No. : 239-701-3  
REACH Registration No : 01-2119489896-11-XXXX  
Hazard classes : Serious eye irritation, Skin irritation, Skin sensitizer  
Hazard categories : Category 2, Category 2, Category 1  
Hazard statements : H319, H315, H317

### Hazardous components in the meaning of 67/548/EEC or 1999/45/EC

- N-vinyl caprolactam  
Concentration [%] : 20.0 - 30.0  
CAS-No. : 2235-00-9  
EINECS-No. : 218-787-6  
Symbol(s) : T  
R-phrases(s) : R22, R36, R43, R48/23
- 2-propenoic acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester  
Concentration [%] : 20.0 - 30.0  
CAS-No. : 66492-51-1  
EINECS-No. : 266-380-7  
Symbol(s) : N, Xi  
R-phrases(s) : R38, R43, R51/53
- Acrylic acid, monoalkyl, aryl or alkyl aryl (Esters of NOS)  
Concentration [%] : 20.0 - 30.0  
Symbol(s) : N, Xi  
R-phrases(s) : R36/37/38, R51/53
- Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-  
Concentration [%] : 1.0 - 5.0  
CAS-No. : 75980-60-8  
EINECS-No. : 278-355-8  
Symbol(s) : N  
R-phrases(s) : R51/53, R43, R62
- phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide  
Concentration [%] : 1.0 - 5.0  
CAS-No. : 162881-26-7  
Index-No. : 015-189-00-5  
Symbol(s) : Xi  
R-phrases(s) : R43, R53
- trimethylolpropane triacrylate  
Concentration [%] : 1.0 - 5.0  
CAS-No. : 15625-89-5  
Index-No. : 607-111-00-9  
EINECS-No. : 239-701-3  
Symbol(s) : Xi  
R-phrases(s) : R36/38, R43

### Components with a community workplace exposure limit

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- trimethylolpropane triacrylate

### 3.3 Remark:

Full text of each relevant R and H phrase is listed in section 16.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures:

- |              |   |                                                                                             |
|--------------|---|---------------------------------------------------------------------------------------------|
| Eye contact  | : | Immediately flush eye(s) with plenty of water. Consult an oculist if necessary.             |
| Skin contact | : | Wash off with soap and water.                                                               |
| Ingestion    | : | Rinse mouth with plenty of water. Consult a physician if necessary. Do not induce vomiting. |
| Inhalation   | : | Take patient to fresh air if necessary. Consult a physician if necessary.                   |

### 4.2 Most important symptoms and effects:

- |          |   |                                                                                                                                                                       |
|----------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms | : | Upon contact with skin: redness, pain. In case of eye contact: redness and pain. Ingestion can cause nausea, vomiting and diarrhea. May cause headache and dizziness. |
|----------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 4.3 Indication of immediate medical attention and special treatment needed:

- |                |   |                               |
|----------------|---|-------------------------------|
| General advice | : | Call a physician immediately. |
|----------------|---|-------------------------------|

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

- |                                                               |   |                                                                                                |
|---------------------------------------------------------------|---|------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                                  | : | Alcohol-resistant foam., Carbon dioxide (CO <sub>2</sub> )., Dry extinguishing powder., Water. |
| Extinguishing media which must not be used for safety reasons | : | Do not use a solid water stream as it may scatter and spread fire.                             |

### 5.2 Special hazards arising from the substance or mixture:

- |                                       |   |                                                                                                    |
|---------------------------------------|---|----------------------------------------------------------------------------------------------------|
| Specific hazards during fire fighting | : | Do not use a solid water stream as it may scatter and spread fire.                                 |
| Further information                   | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. |

### 5.3 Advice for fire-fighters:

- |                                                |   |                                    |
|------------------------------------------------|---|------------------------------------|
| Special protective equipment for fire-fighters | : | Regular fire intervention clothes. |
|------------------------------------------------|---|------------------------------------|

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

- |                      |   |                                                                       |
|----------------------|---|-----------------------------------------------------------------------|
| Personal precautions | : | Cleanup personnel must use appropriate personal protective equipment. |
|----------------------|---|-----------------------------------------------------------------------|

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Additional advice : Observe normal precautions when handling chemicals.

### 6.2 Environmental precautions:

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

### 6.3 Methods and material for containment and cleaning up:

Methods for cleaning up : Dike the spill if necessary. If spill occurs, apply a suitable absorbent material and collect into an impervious waste container. Collect the product in a plastic vessel. Carefully collect leftovers.

### 6.4 Reference to other sections:

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

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

Advice on safe handling : Prevent product from diffusing.  
Hygiene measures : Observe normal precautions when handling chemicals. Keep away from foodstuffs, drinks and tobacco. Employees should wash their hands and face before eating, drinking, or using tobacco products.  
Advice on protection against fire and explosion : No special protective measures against fire and explosion required.

### 7.2 Conditions for safe storage:

Requirements for storage areas and containers : Keep container tightly closed. Keep in a dry place.  
Further information on storage conditions : Keep container in a well-ventilated place.

### 7.3 Specific end use:

This substance is used only by trained professionals under restricted conditions.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters:

**8.1.1 Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:**

#### 8.1.1.1 Occupational exposure limits:

##### Air limit values

We are not aware of any national exposure limit.

##### Biological limit values

We are not aware of any national exposure limit.

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### 8.1.1.2 Additional exposure limits under the conditions of use:

No other exposure limits applicable.

### 8.1.1.3 DNEL/DMEL and PNEC-values:

#### DNEL

- N-vinyl caprolactam CAS-No.: 2235-00-9

Application area	Route of exposure	Health effect	Value
Worker: Industry	Inhalation	Long-term - systemic effects	4.9 mg/m <sup>3</sup>
Worker: Industry Worker: Industry	Dermal Inhalation	Long-term - local effects	0.7 mg/kg 0.17 mg/m <sup>3</sup>

#### PNEC

- N-vinyl caprolactam CAS-No.: 2235-00-9

Environmental compartment	Exposure time	Value
Fresh water		0.1 mg/l
Marine water		0.01 mg/l
Intermittent release		1 mg/l
Sewage treatment plant		262 mg/l
Sediment-fresh water		0.829 mg/kg
Soil		0.107 mg/kg

### 8.2 Exposure controls:

#### Occupational exposure controls:

##### ➤ Instruction measures to prevent exposure:

Employees should wash their hands and face before eating, drinking, or using tobacco products.  
Keep away from foodstuffs, drinks and tobacco.

##### ➤ Technical measures to prevent exposure:

Ensure adequate ventilation.

##### ➤ Personal measures to prevent exposure:

Respiratory protection : not required under normal use  
Hand protection : Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butylrubber (thickness  $\geq$  0.70 mm, breakthrough time > 480 min).(EN 374). The use of protective gloves should conform to the specifications of EC directive 89/686/EC and the resultant standard EN374.  
Additional advice: The data are based on own tests, literature data and information of glove manufacturers or derived from similar substances. Because several factors may influence these properties (eg temperature), one should take into account the fact that the life of a chemical gloves in practice may be considerably shorter than indicated by the permeation

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test. The high diversity of types of use are prescribed by the manufacturer.

Eye protection : Safety goggles. EN 166.  
Body Protection : Safety clothes.  
Personal protective equipment : Observe normal precautions when handling chemicals.

### Environmental exposure controls:

Do not release into drain. Collect for removal by a licensed waste contractor. Effluent regulations/discharge/treatment/contents may vary from one area to another. Please consult the local regulations regarding the disposal of this material.

EU Directive	Status
European Directive 2000/60/EC (water)	not on list
European Directive 1996/62/EC (air)	not on list

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Basic physical and chemical properties:

#### 9.1.1 Appearance:

State of matter : Liquid  
Form : Liquid.  
Color : Magenta  
Odor : Sweetish smell  
Odor threshold : No data available

#### 9.1.2 Important health, safety and environmental information:

pH : Not applicable  
Melting point/range : < 0 °C Method: Literature.  
Boiling point/range : > 100 °C Method: Literature.  
Flash point : > 100 °C Method: Literature.  
Autoignition temperature : No data available  
Vapour pressure : No data available  
Relative vapour density : No data available  
Relative density (25 °C) : 1.020 - 1.100  
Density : No data available  
Solubility/qualitative : Immiscible with water.  
Water solubility : No data available  
Partition coefficient (n-octanol/water) : No data available  
Viscosity, dynamic (25 °C) : 10 - 30 mPa.s  
Viscosity, kinematic : No data available  
Lower explosion limit : No data available  
Upper explosion limit : No data available  
Evaporation rate : No data available  
Flammability (solid, gas) : Not flammable. Method: Literature.

#### 9.2 Other information:



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### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity:

Reactivity : Reactivity is not to be expected under normal conditions of temperature and pressure.

#### 10.2 Chemical stability:

Stability : The product is stable under normal conditions of storage and use.

#### 10.3 Possibility of hazardous reactions:

Hazardous reactions : The product is stable under normal conditions of storage and use.

#### 10.4 Conditions to avoid:

Conditions to avoid : No data available

#### 10.5 Materials to avoid:

Materials to avoid : No data available

#### 10.6 Hazardous decomposition products:

Hazardous decomposition products : No specified dangerous decomposition products are known.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Toxicity data specific for individual ingredients in their pure state:

#### Toxicokinetics, metabolism and distribution:

No data available

#### Acute effects (toxicity tests):

##### ➤ Acute Toxicity

- N-vinyl caprolactam

	Effect dose	Species	Value	Method
Acute oral toxicity	LD50	rat	ca. 1,400 mg/kg	Literature.
Acute dermal toxicity	LD50	rat	> 2,000 mg/kg	Literature.
Acute inhalation toxicity	LC50	rat	Based on available data, the classification criteria are not met. It was demonstrated that during intended and foreseen applications, no respirable aerosol is formed.	

- Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-

	Effect dose	Species	Value	Method
Acute oral toxicity	LD50	rat	> 2,000 mg/kg	Literature.

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Acute dermal toxicity	Based on available data, the classification criteria are not met. LD50 rat > 2,000 mg/kg Literature.
Acute inhalation toxicity	Based on available data, the classification criteria are not met.  No data available

- phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

	Effect dose	Species	Value	Method
Acute oral toxicity	LD50	rat	> 2,000 mg/kg	OECD Test Guideline 401
Acute dermal toxicity	LD50	rat	> 2,000 mg/kg	OECD Test Guideline 402
Acute inhalation toxicity	Based on available data, the classification criteria are not met.			No data available

- trimethylolpropane triacrylate

	Effect dose	Species	Value	Method
Acute oral toxicity	LD50	rat	> 3,000 mg/kg	Literature.
Acute dermal toxicity	LD50	rabbit	> 6,000 mg/kg	Literature.
Acute inhalation toxicity	Based on available data, the classification criteria are not met.			No data available

### > Specific target organ toxicity (STOT):

Specific effects	Affected organs
Irritating to respiratory system.	

### > Irritant and corrosive effects:

	Exposure time	Species	Evaluation	Method
Primary irritation to the skin			Irritating to skin.	
Irritation to eyes			Eye irritation	

### > Irritation to the respiratory tract:

May cause irritation of respiratory tract.

### > Sensitisation:

Species	Evaluation	Method
	May cause sensitization of susceptible persons by skin contact.	

### > Aspiration hazard:

No data available

### Sub-acute, sub-chronic and chronic toxicity

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### ➤ Repeated dose toxicity:

No data available

### ➤ Specific target organ toxicity (STOT):

May cause damage to organs through prolonged or repeated exposure.

### ➤ CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

#### - Carcinogenicity

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

#### - Mutagenicity

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

#### - Genetic toxicity in vitro

No data available

#### - Genetic toxicity in vivo

No data available

#### - Teratogenicity

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

#### - Toxicity to reproduction

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

### ➤ Summarised evaluation of the CMR properties:

Carcinogenicity : Based on available data, the classification criteria are not met.  
Mutagenicity : Based on available data, the classification criteria are not met.  
Teratogenicity : Based on available data, the classification criteria are not met.  
Toxicity to reproduction : Based on available data, the classification criteria are not met.

### Experiences made in practice:

Symptoms may be delayed. Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use. Other dangerous properties can not be excluded. At high concentrations the monomer vapours can cause eye and nose irritation.

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity:

- N-vinyl caprolactam

	Effect dose	Exposure time	Species	Value
Toxicity to fish	LC50	96 h	Brachidanio rerio (zebra fish)	318 mg/l
Method: OECD Test Guideline 203				

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Toxicity to daphnia	Based on available data, the classification criteria are not met. EC50 48 h Daphnia magna > 100 mg/l Method: OECD Test Guideline 202
Toxicity to algae	Based on available data, the classification criteria are not met. EC50 72 h Scenedesmus subspicatus (algae) > 100 mg/l Method: Literature.
Toxicity to bacteria	Based on available data, the classification criteria are not met. EC50 16 h Pseudomonas putida (bacteria) 622 mg/l Method: OECD-Guideline No.209; 88/302/EEC C.11 Based on available data, the classification criteria are not met.

- Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-

	Effect dose	Exposure time	Species	Value
Toxicity to fish	LC50	96 h	Leuciscus idus (golden orfe)	< 100.00 mg/l
	Method: Literature.			
Toxicity to daphnia	EC0	48 h	Daphnia magna (water flea)	< 100.00 mg/l
	Method: Literature.			
Toxicity to daphnia	EC50	48 h	Daphnia	3.53 mg/l
	Method: Literature.			
Toxicity to algae	EC50	72 h	Algae	> 1,000 mg/l
	Method: Literature.			
Toxicity to bacteria	EC50	17 h	Bacteria	> 500.00 mg/l
	Method: Literature.			

- phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

	Effect dose	Exposure time	Species	Value
Toxicity to fish	LC50	96 h	Brachidanio rerio (zebra fish)	> 0.09 mg/l
	Method: OECD Test Guideline 203			
Toxicity to daphnia	EC50	48 h	Daphnia magna	> 1,175 mg/l
	Method: OECD Test Guideline 202			
Toxicity to algae	EC50	72 h	Scenedesmus subspicatus (algae)	> 0.26 mg/l
	Method: OECD Test Guideline 201			
Toxicity to bacteria	EC50	3 h	Bacteria	> 100 mg/l
	Method: OECD-Guideline No.209; 88/302/EEC C.11			

- trimethylolpropane triacrylate

	Effect dose	Exposure time	Species	Value
Toxicity to fish	No data available			
Toxicity to daphnia	No data available			
Toxicity to algae	No data available			
Toxicity to bacteria	No data available			

### 12.2 Persistence and degradability:

#### Physico-chemical removability

No data available

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### Chemical Oxygen Demand (COD)

No data available

### Adsorbed organic bound halogens (AOX)

Product does not contain any organic halogens.

### Biodegradation

No data available

### Biochemical Oxygen Demand (BOD)

No data available

### 12.3 Bioaccumulative potential:

#### Partition coefficient (n-octanol/water)

No data available

#### Bioconcentration factor (BCF)

No data available

### 12.4 Mobility in soil:

No information available.

### Henry's constant

Value	Temperature	Method
		No information available.

### Transport between environmental compartments

No data available

### 12.5 Results of PBT and vPvB assessment:

This product does not meet the criteria concerning PBT or vPvB substances as described in Annex XIII of the REACH regulation (1907/2006 EC)

### 12.6 Other adverse effects:

This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer. Avoid infiltration in to drinking supplies, waste water or soil. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

#### Waste disposal methods

Environmental regulations, discharge of chemicals and washwater, waste treatment and disposal conditions of chemicals and their packaging may vary from one country to another. The relevant local regulations should be consulted. When this product or its contaminated packaging has to be removed as waste, contact an authorized waste contractor.

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May be discharged to drain if local regulations permit.

### Empty containers.

As the packaging can be contaminated with product residus, please observe the warnings of the label even when the container is empty. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

For waste resulting from the expired product, it is recommended to use European Waste Code : 08 03 12 (waste ink containing dangerous substances).

## 14. TRANSPORT INFORMATION

Not regulated according to ADR.

Not regulated according to ADN.

Not regulated according to RID.

Not regulated according to IMO/IMDG.

Not regulated according to ICAO/IATA aircraft only.

Not regulated according to ICAO/IATA passenger and cargo aircraft.

## 15. REGULATORY INFORMATION

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

#### Authorisation and/or restriction on use

Authorisation : No

Restriction on use : Not listed on EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixtures & articles (Reg 1907/2006/EC, as amended)

#### Other EU regulations

Does not fall under specific EU-Regulations.

### 15.2 Chemical Safety Assessment

No Chemical Safety Report needed according REACH.

## 16. OTHER INFORMATION

Text of H-phrases referred to under headings 2 and 3:

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH Annex II) and its amendments



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H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

### Text of R-phrases referred to under headings 2 and 3:

R22	Harmful if swallowed.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R48/21	Harmful: danger of serious damage to health by prolonged exposure in contact with skin.
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R51/53	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.
R53	May cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.

### Further information

This Safety Data Sheet is compiled in accordance with European Directives and corresponding national legislation.

The information disclosed in this Safety Data Sheet is believed to be correct to the best of our current knowledge and experience. It only relates to the specific product designated herein and it may not be valid when said product is used in combination with any other material or in any process, unless specified in the text. This document aims to provide the necessary health and safety information of the product and is not to be considered a warranty or quality specification. It is the responsibility of the user to comply with local legislation relating to safety, health, environment and waste management.

### Sources of key data used to compile the datasheet

Handbuch der gefährlichen Güter, Hommel.

The Dictionary of Substances and their Effects, Royal Society of Chemistry.

Gefährliche Chemische Reaktionen, L.Roth und U.Weller.

Handbuch der Umweltgifte, Dauderer.

Chemiekaarten, latest version.

Safety Data Sheet from the supplier.

IUCLID Test data. This safety data sheet contains an ES (if applicable) in an integrated form.

Contents of the exposure scenario have been included (if applicable) into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet. The downstream user has to check whether his uses are covered by the integrated ES information in this safety data sheet.

# SAFETY DATA SHEET

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### Abbreviations

ADR:	Accord européen relatif au transport international des marchandises Dangereuses par Route
ADNR:	Accord européen relatif au transport international des marchandises Dangereuses par la Rhin
AGW:	Arbeitsplatzgrenswerte (GE)
ATEmix:	Acute toxicity estimate of the mixture
CLP:	Classification, Labelling and Packaging of substances and mixtures
CMR:	Carcinoge
DNEL:	Derived No Effect Level
EC0:	Effective Concentration 0%
EC5:	Effective Concentration 5%
EC10:	Effective Concentration 10%
EC50:	Median Effective Concentration
EC100:	Effective Concentration 100%
EH40 WEL:	Workplace Exposure Limit (UK)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IC50:	inhibitory concentration 50%
IMDG:	International Maritime Dangerous Goods
IMO:	International Maritime Organization
IUCLID:	International Uniform Chemical Information Database
LC50:	Lethal Concentration 50%
LC100:	Lethal Concentration 100%
LOAEL:	Lowest Observed Adverse Effect Level
LDL0	Lethal Dose (minimum found to be lethal)
LD50:	Lethal Dose 50%
MAC:	Maximaal Aanvaardbare Concentratie (NL)
MAK:	Maximale Arbeitsplatz-Konzentration
NOAEL:	No Observed Adverse Effect Level
NOEL:	No Observed Effect Level
NOEC:	No Observed Effect Concentration
OEL:	Occupational Exposure Limit
PBT:	Persistent, Bioaccumulative and Toxic substance
PNEC:	Predicted No Effect Concentration
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID:	Regulations concerning the International Transport of Dangerous Goods by Rail
STEL:	Short Term Exposure Limit
TLV:	Threshold Limit Value
TRGS900:	Arbeitsplatzgrenswerte (GE)
TWA:	Time Weighted Average
VOC:	Volatile Organic Compound
vPvB:	very Persistent and very Bioaccumulative substance