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



# AJ UV G5 FA RTR MAGENTA INK

SUBID : 000001013953

Print Date 15.02.2016

Version 1

Revision Date 19.03.2015

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

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

Product name	:	AJ UV G5 FA RTR MAGENTA INK
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 (	
<ul> <li>Hazard classes</li> </ul>	Serious eye damage
Hazard categories	Category 1
Hazard statements	H318
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
<ul> <li>Hazard classes</li> </ul>	Skin irritation
Hazard categories	Category 2
Hazard statements	H315
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
<ul> <li>Hazard classes</li> </ul>	Skin sensitizer
Hazard categories	Category 1
Hazard statements	H317
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
<ul> <li>Hazard classes</li> </ul>	Specific target organ toxicity - repeated exposure
Hazard categories	Category 2
Hazard statements	H373
Classification procedure	According the classification criteria of CLP Regulation (EC)

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





SUBID : 000001013953

Print Date 15.02.2016

Version 1

Revision Date 19.03.2015

I	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	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-phrase(s)	R43, R52/53, R36/37/38, R41, R48/22

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 :

Symbol(s)

GHS05	GHS07 GHS	
01303	61307 613	08
Signal word Hazard statements	: DANGER : H315	Causes skin irritation.
	H317 H318	May cause an allergic skin reaction. Causes serious eye damage.
	H335	May cause respiratory irritation.
	H373	May cause damage to organs through prolonged or repeated exposure.
	H412	Harmful to aquatic life with long lasting effects.
Precautionary statements: prevention	: P260	Do not breathe dust/fume/gas/mist/vapours/spray.
·	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements: response	: P337+P313	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)

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



AJ UV G5 FA RTR MAGENTA INK

SUBID : 000001013953

Print Date 15.02.2016

Version 1

Revision Date 19.03.2015

### 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)

Oxybis(methyl-2,1-ethanedi CAS-No. EINECS-No. REACH Registration No Hazard classes Hazard categories	: 57 : 26 : 01 : Sk	7472-68-1 60-754-3 1-2119484629-21-XXXX skin irritation, Serious eye damage, Skin sensitizer ategory 2, Category 1, Category 1	20.0
<ul> <li>Hazard statements</li> <li>N-vinyl caprolactam CAS-No.</li> <li>EINECS-No.</li> <li>REACH Registration No Hazard classes</li> </ul>	: 22 : 21 : 01 : Ac	235-00-9 18-787-6 1-2119977109-27-XXXX cute toxicity Oral, Serious eye irritation, Skin sensitizer, specific target organ toxicity - repeated exposure Inhalation	10.0 າ
<ul><li>Hazard categories</li><li>Hazard statements</li><li>Isobornyl acrylate</li><li>CAS-No.</li></ul>	: H3 : 58	888-33-5	20.0
REACH Registration No Hazard classes	: Sk to: en	1-2119957862-25-XXXX skin irritation, Serious eye irritation, Specific target organ oxicity - single exposure, Chronic hazards to the aquatic nvironment	
<ul> <li>Hazard categories</li> <li>Hazard statements</li> <li>Phenoxyethylacrylate</li> <li>CAS-No.</li> <li>EINECS-No.</li> <li>REACH Registration No</li> </ul>	: H3 : 48 : 25	Category 2, Category 2, Category 3, Category 2 I315, H319, H335, H411 Concentration [%] : 10.0 - 2 8145-04-6 56-360-6 Transition time according to REACH regulation article 23 is	20.0
Hazard classes Hazard categories Hazard statements	nc : Sk : Ca	ot expired. Skin sensitizer Category 1 1317	20.0
<ul> <li>Tetrahydrofurfurylacrylaat CAS-No. EINECS-No. REACH Registration No</li> </ul>	: 21 : Tr nc	399-48-6 19-268-7 ransition time according to REACH regulation article 23 is ot expired.	
<ul> <li>Hazard classes</li> <li>Hazard categories</li> <li>Hazard statements</li> <li>Isodecyl acrylate</li> <li>CAS-No.</li> </ul>	: Ca : H3	Skin irritation, Serious eye irritation Sategory 2, Category 2 I315, H319 Concentration [%] : 1.0 - 330-61-6	5.0
Index-No. EINECS-No.	: 60	07-133-00-9 15-542-5	

Version 1

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





SUBID : 000001013953

Print Date 15.02.2016

Version 1 Revision Date 19.03.2015				Print D	ate 1	5.02.2016
REACH Registration No	:	Transition time ac not expired.	cording to REACH regul	lation art	icle 2	3 is still
Hazard classes	:	Serious eye irritat	ion, Specific target organitation, Chronic hazards			
Hazard categories Hazard statements	:		gory 3, Category 2, Cate	gory 2		
<ul> <li>Phosphine oxide, diphenyl(2)</li> </ul>	2,4,6		Concentration [%] :	1.0	-	5.0
trimethylbenzoyl)- CAS-No.		75980-60-8				
EINECS-No.	1	278-355-8				
REACH Registration No	1	01-2119972295-2	9-XXXX			
Hazard classes	1		tion, Chronic hazards to	the aqua	atic	
		environment, Skir				
Hazard categories	:	Category 2, Categ				
Hazard statements	:	H361f, H411, H31				
<ul> <li>phenyl bis(2,4,6-trimethylbe oxide</li> </ul>	nzoy	d)-phosphine	Concentration [%] :	1.0	-	5.0
CAS-No.	1	162881-26-7				
Index-No.	1	015-189-00-5				
REACH Registration No	1		cording to REACH regul	lation art	icle 2	3 is still
		not expired.	han the sector to the sec		•	
Hazard classes	1		hronic hazards to the aq	uatic env	/ironr	nent
Hazard categories Hazard statements	1	Category 1A, Cate	egory 4			
<ul> <li>2-Propenoic acid ,1-6-hexai</li> </ul>	Dodiv	H317, H413	Concentration [%] :	1.0	_	5.0
ester, polymer with 2-aminor				1.0	-	5.0
CAS-No.	:	67906-98-3				
REACH Registration No	:		cording to REACH regul	lation art	icle 2	3 is still
Hazard classes	:	Skin irritation, Ser	ious eye irritation			
Hazard categories	:	Category 2, Categ				
Hazard statements	1	H315, H319				
Hazardous components in th	ne m	eaning of 67/548/E	EC or 1999/45/EC			
<ul> <li>Oxybis(methyl-2,1-ethanedi</li> </ul>	yl) di	acrylate	Concentration [%] :	10.0	-	20.0
CAS-No.	1	57472-68-1				
EINECS-No.	1	260-754-3				
Symbol(s)	- 1	Xi				
R-phrase(s)	- :	R38, R41, R43	0	5.0		40.0
N-vinyl caprolactam		0005 00 0	Concentration [%] :	5.0	-	10.0
CAS-No.	1	2235-00-9				
EINECS-No. Symbol(s)	1	218-787-6 T				
R-phrase(s)	1	r R22, R36, R43, R	48/23			
<ul> <li>Isobornyl acrylate</li> </ul>	•	1122, 1130, 1143, 11	Concentration [%] :	10.0	-	20.0
CAS-No.		5888-33-5		10.0		20.0
Symbol(s)		Xi, N				
R-phrase(s)		R36/37/38, R51/5	3			
Phenoxyethylacrylate	-	,	Concentration [%] :	10.0	-	20.0
CAS-No.	:	48145-04-6				
EINECS-No.	:	256-360-6				
Symbol(s)	:	Xi				
R-phrase(s)	:	R43				
Tetrahydrofurfurylacrylaat			Concentration [%] :	10.0	-	20.0
GB		4/19				EN

Version 1

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



# AJ UV G5 FA RTR MAGENTA INK

SUBID : 000001013953

Print Date 15.02.2016

ersion 1 evision Date 19.03.2015			Print Da	te 15	.02.20
CAS-No.	: 2399-48-6				
EINECS-No.	: 219-268-7				
Symbol(s)	: C				
R-phrase(s)	: R34	Concentration [9/1:	1.0		5.0
<ul> <li>Isodecyl acrylate</li> <li>CAS-No.</li> </ul>	1000 61 6	Concentration [%] :	1.0	-	5.0
Index-No.	: 1330-61-6 : 607-133-00-9				
EINECS-No.	: 215-542-5				
Symbol(s)	: Z15-542-5 : Xi, N				
R-phrase(s)	: R36/37/38, R51	/53			
<ul> <li>Phosphine oxide, dipheny</li> </ul>		Concentration [%] :	1.0	-	5.0
trimethylbenzoyl)-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1.0		0.0
CAS-No.	: 75980-60-8				
EINECS-No.	: 278-355-8				
Symbol(s)	: N				
R-phrase(s)	: R51/53, R43, R6	62			
phenyl bis(2,4,6-trimethyl		Concentration [%] :	1.0	-	5.0
oxide	<b>7</b> 71 - T		-		
CAS-No.	: 162881-26-7				
Index-No.	: 015-189-00-5				
Symbol(s)	: Xi				
R-phrase(s)	: R43, R53				
2-Propenoic acid ,1-6-he		Concentration [%] :	1.0	-	5.0
ester, polymer with 2-amir					
CAS-No.	: 67906-98-3				
Symbol(s)	: Xi				
R-phrase(s)	: R36/38				
<ul> <li>Hexamethylene diacrylate</li> <li>Caprolactam</li> <li>3.3 Remark:         <ul> <li>Full text of each relevant R</li> </ul> </li> <li>FIRST AID MEASURES</li> </ul>	and H phrase is listed it	n section 16.			
4.1 Description of first aid					
Eye contact	<ul> <li>Immediately flus oculist if necess</li> </ul>	sh eye(s) with plenty of wa	ater. Consi	uit an	
Skin contact	: Wash off with so				
Ingestion		th plenty of water. Consul	t a nhveici	an if	
ingestion		not induce vomiting.	ca priysicie	11 11	
Inhalation		fresh air if necessary. Co	nsult a phy	siciar	n if
4.2 Most important sympto	oms and effects:				
Symptoms	: Upon contact wi	ith skin: redness, pain. In	case of ev	e con	tact:
-,	redness and pai	in. Ingestion can cause na ause headache and dizzir	ausea, von		

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

# AJ UV G5 FA RTR MAGENTA INK



SUBID : 000001013953

Print Date 15.02.2016

Version 1

Revision Date 19.03.201	5
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General advice	: Call a physician immediately.
FIRE-FIGHTING MEASURES	
5.1 Extinguishing media	
Suitable extinguishing media	: Alcohol-resistant foam., Carbon dioxide (CO2)., 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 fr	om the substance or mixture:
Specific hazards during fire	: Do not use a solid water stream as it may scatter and spread fire.
fighting Further information	<ul> <li>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.</li> </ul>
5.3 Advice for fire-fighters:	
Special protective equipment	: Regular fire intervention clothes.
	SURES
ACCIDENTAL RELEASE MEAS	
ACCIDENTAL RELEASE MEAS	SURES otective equipment and emergency procedures:
ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, pro Personal precautions	SURES Detective equipment and emergency procedures: : Cleanup personnel must use appropriate personal protective equipment. : Observe normal precautions when handling chemicals.
ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, pro Personal precautions Additional advice	SURES Detective equipment and emergency procedures: : Cleanup personnel must use appropriate personal protective equipment. : Observe normal precautions when handling chemicals.
ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, pro Personal precautions Additional advice 6.2 Environmental precautions	<ul> <li>SURES</li> <li>Detective equipment and emergency procedures: <ul> <li>Cleanup personnel must use appropriate personal protective equipment.</li> <li>Observe normal precautions when handling chemicals.</li> </ul> </li> <li>Instant Content Content</li></ul>
ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, pro Personal precautions Additional advice 6.2 Environmental precautions	<ul> <li>SURES</li> <li>Detective equipment and emergency procedures: <ul> <li>Cleanup personnel must use appropriate personal protective equipment.</li> <li>Observe normal precautions when handling chemicals.</li> </ul> </li> <li>Instant Courses or the soil.</li> </ul>
ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, pro Personal precautions Additional advice 6.2 Environmental precautions Environmental precautions 6.3 Methods and material for	<ul> <li>SURES</li> <li>Detective equipment and emergency procedures: <ul> <li>Cleanup personnel must use appropriate personal protective equipment.</li> <li>Observe normal precautions when handling chemicals.</li> </ul> </li> <li>Insection 1 (1998) 1 (19</li></ul>
ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, pro Personal precautions Additional advice 6.2 Environmental precautions Environmental precautions 6.3 Methods and material for Methods for cleaning up	<ul> <li>SURES</li> <li>Detective equipment and emergency procedures: <ul> <li>Cleanup personnel must use appropriate personal protective equipment.</li> <li>Observe normal precautions when handling chemicals.</li> </ul> </li> <li>If the product should not be allowed to enter drains, water courses or the soil.</li> <li>Containment and cleaning up: <ul> <li>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.</li> </ul> </li> <li>n 13.</li> </ul>

Advice on safe handling : Prevent product from diffusing.

Version 1

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

# AJ UV G5 FA RTR MAGENTA INK



#### SUBID : 000001013953

Print Date 15.02.2016

Revision Date 19.03.2015	
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	e:
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 rsp. biological occupational exposure limits requiring monitoring:

#### 8.1.1.1 Occupational exposure limits:

#### Air limit values

•	Caprolactam

CAS-No.: 105-60-2

Basis	Revision Date	Value	Туре	
EU ELV	12 2009	10 mg/m3	TWA	
EU ELV	12 2009	40 mg/m3	STEL	
EH40 WEL	2007	10 mg/m3	TWA	
EH40 WEL	2007	1 mg/m3		
EH40 WEL	2007	20 mg/m3	STEL	
EH40 WEL	2007	3 mg/m3	STEL	

#### **Biological limit values**

We are not aware of any national exposure limit.

#### 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

<ul> <li>N-vinyl caprolactar</li> </ul>	m		CAS-No.: 2235-00-9
Application area	Route of	Health effect	Value
	exposure		
Worker: Industry	Inhalation	Long-term - systemic effects	4.9 mg/m3
Worker: Industry	Dermal		0.7 mg/kg

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

# AJ UV G5 FA RTR MAGENTA INK



SUBID : 000001013953 Print Date 15.02.2016

#### Version 1

Revision Date 19.03.2015

Inhalation	Long-term - local effects	0.17 mg/m3
	Inhalation	5

#### 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 Hand protection	:	not required under normal use Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butylrubber (thickness >= 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 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.

8/19

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GB

Status

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

# AJ UV G5 FA RTR MAGENTA INK



SUBID : 000001013953

Version 1 Revision Date 19.03.2015		Print Date 15.02.2016		
European Directive 2000/60/E European Directive 1996/62/E		not on list not on list		
9. PHYSICAL AND CHEMICAL	PROPERTIES			
9.1 Basic physical and cher	nical properties:			
9.1.1 Appearance:				
State of matter Form Color Odor Odor threshold	<ul> <li>Liquid</li> <li>Liquid.</li> <li>Magenta</li> <li>Sweetish smell</li> <li>No data available</li> </ul>			
9.1.2 Important health, safe	ty and environmental information	on:		
pH Melting point/range Boiling point/range Flash point Autoignition temperature Vapour pressure Relative vapour density Relative density Density Solubility/qualitative Water solubility Partition coefficient (n- octanol/water) Viscosity, dynamic Viscosity, kinematic Lower explosion limit Upper explosion limit Evaporation rate Flammability (solid, gas)	<ul> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>1.058</li> <li>No data available</li> <li>Immiscible with water.</li> <li>No data available</li> </ul>	Method: Literature. Method: Literature. Method: Literature. Method: Literature.		
10. STABILITY AND REACTIVI	ТҮ			
10.1 Reactivity:				
Reactivity	: Reactivity is not to be expe temperature and pressure.	ected under normal conditions of		
10.2 Chemical stability:				
Stability				
10.3 Possibility of hazardou	is reactions:			

### 10.3 Possibility of hazardous reactions:

Hazardous reactions	: The product is stable under normal conditions of storage and use.
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according to Regulation (EC) No 1907/2006 (REACH Annex II) and its amendments





#### SUBID : 000001013953

Print Date 15.02.2016

## Version 1

Revision Date 19.03.2015

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

## 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

• Oxybis(methyl-2,1-ethanediyl) diacrylate

	Effect dose	Species	Value Method
Acute oral toxicity	LD50	rat	4,600 mg/kg Literature.
	Based on av	ailable data	, the classification criteria are not met.
Acute dermal toxicity	LD50	rabbit	> 2,000 mg/kg Literature.
	Based on av	ailable data	, the classification criteria are not met.
Acute inhalation toxicity			
	No data avai	lable	

### N-vinyl caprolactam

Effect dose	Species	Value	Method
LD50	rat	ca. 1,400 mg/kg	Literature.
LD50	rat	> 2,000 mg/kg	Literature.
Based on available data, the classification criteria are not met.			
LC50	rat		
It was demonstrated that during intended and foreseen applications, no respirable aerosol is formed.			
	LD50 LD50 Based on av LC50 It was demor	LD50 rat LD50 rat Based on available data LC50 rat It was demonstrated that	LD50ratca. 1,400 mg/kgLD50rat> 2,000 mg/kgBased on available data, the classification criteria aLC50rat

#### Isobornyl acrylate

	Effect dose	Species	Value Method
Acute oral toxicity	LD50	rat	4,890 mg/kg Literature.
	Based on av	ailable data,	the classification criteria are not met.
Acute dermal toxicity	LD50	rabbit	5,000 mg/kg Literature.
	Based on av	ailable data,	the classification criteria are not met.
Acute inhalation toxicity			
	No data avai	lable	

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

AJ UV G5 FA RTR MAGENTA INK



SUBID : 000001013953

Print Date 15.02.2016

Version 1

Cevision Date 15.05.2015		
Phenoxyethylacrylate		
• Flienoxyetriylaciylate	Effect dose Species	Value Method
A quita darmal taxiaitu		
Acute dermal toxicity		2,000 mg/kg Literature.
Acute inhalation toxicity	Based on available data, the classific	cation chiena are not met.
Acute initialation toxicity	No data available	
<ul> <li>Tetrahydrofurfurylacryla</li> </ul>	at	
	Effect dose Species	Value Method
Acute oral toxicity		
	No data available	
Acute dermal toxicity		
	No data available	
Acute inhalation toxicity		
	No data available	
<ul> <li>Isodecyl acrylate</li> </ul>		
	Effect dose Species	Value Method
Acute oral toxicity		
	No data available	
Acute dermal toxicity		
, ,	No data available	
Acute inhalation toxicity		
-	No data available	
Dheenhine evide dinha		
Phosphine oxide, dipne	hyl(2,4,6-trimethylbenzoyl)-	Value Mathad
A suite and taxisity	Effect dose Species	Value Method
Acute oral toxicity	LD50 rat > 2 Based on available data, the classific	2,000 mg/kg Literature.
Acute dermal toxicity		2,000 mg/kg Literature.
Acute definal toxicity	Based on available data, the classific	
Acute inhalation toxicity		
	No data available	
<ul> <li>phenyl bis(2,4,6-trimethethethethethethethethethethethethethe</li></ul>	ylbenzoyl)-phosphine oxide	
	Effect dose Species	Value Method
Acute oral toxicity	LD50 rat >	2,000 mg/kg OECD Test
		Guideline 401
A outo dormal toxicity	Based on available data, the classific	
Acute dermal toxicity	LD50 rat >1	2,000 mg/kg OECD Test Guideline 402
	Based on available data, the classific	
Acute inhalation toxicity		
, loate initialation toxicity	No data available	
<ul> <li>2-Propenoic acid ,1-6-h</li> </ul>	exanediyl ester,polymer with 2-aminoe	
	Effect dose Species	Value Method
Acute oral toxicity		
	No data available	
Acute dermal toxicity		
<b></b>	No data available	
Acute inhalation toxicity	Ne dete evelleble	
	No data available	
Specific target organ to	vicity (STOT).	

## > Specific target organ toxicity (STOT):

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

# AJ UV G5 FA RTR MAGENTA INK



#### SUBID : 000001013953

Print Date 15.02.2016

Version 1

Revision Date 19.03.2015

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	_			
	Risk of serie	ous damage	to eyes.	

#### > Irritation to the respiratory tract:

May cause irritation of respiratory tract.

#### > Sensitisation:

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

#### > Aspiration hazard:

No data available

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

#### > Repeated dose toxicity:

No data available

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

Irritating to respiratory system.

#### > CMR effects (carcinogenity, 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.

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

AJ UV G5 FA RTR MAGENTA INK



SUBID : 000001013953 Print Date 15.02.2016

Version 1

Revision Date 19.03.2015

#### - Toxicity to reproduction

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

#### > Summarised evaluation of the CMR properties:

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

• Oxybis(methyl-2,1-ethanediyl) diacrylate

	Effect	Exposure	Species	Value
	dose	time		
Toxicity to fish	LC50	96 h	Leuciscus idus (golden orfe)	2.15 to 4.64 mg/l
-	Method	Literature.		-
	Based of	n available o	lata, the classification criteria are	not met.
Toxicity to daphnia	EC50	48 h	Daphnia magna	22.3 mg/l
	Method	Literature.		-
	Based of	n available o	lata, the classification criteria are	not met.
Toxicity to algae	EC50	72 h	Algae	< 16.7 mg/l
	Method	Literature.	-	-
	Based of	n available o	lata, the classification criteria are	not met.
Toxicity to bacteria				
-	No data	available		

### N-vinyl caprolactam

	Effect	Exposure	Species	Value
	dose	time		
Toxicity to fish	LC50	96 h	Brachidanio rerio (zebra fish)	318 mg/l
	Method:	OECD Test	Guideline 203	
	Based o	n available o	lata, the classification criteria are not met.	
Toxicity to daphnia	EC50	48 h	Daphnia magna	> 100 mg/l
	Method:	<b>OECD</b> Test	Guideline 202	-
	Based o	n available o	lata, the classification criteria are not met.	
Toxicity to algae	EC50	72 h	Scenedesmus subspicatus	> 100 mg/l
			(algae)	-
	Method:	Literature.		
	Based o	n available o	lata, the classification criteria are not met.	
Toxicity to bacteria	EC50	16 h	Pseudomonas putida	622 mg/l
			(bacteria)	-
	Method:	OECD-Guid	leline No.209; 88/302/EEC C.11	
	Based o	n available o	lata, the classification criteria are not met.	

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





SUBID : 000001013953 Print Date 15.02.2016

Version 1

Revision Date 19.03.2015

<ul> <li>Isobornyl acrylate</li> </ul>			
	Effect Exposure dose time	Species	Value
Toxicity to fish	LC50 96 h Method: OECD Test	Brachidanio rerio (zebra fish)	0.704 mg/l
Toxicity to daphnia		Guideline 205	
Toxicity to algae	No data available NOEC 72 h	Algae	0.405 mg/l
Toxicity to algae	Method: OECD Test EC50 72 h	Algae	1.98 mg/l
Toxicity to algae	Method: OECD Test EC50 72 h	Algae	0.596 mg/l
Toxicity to bacteria	Method: OECD Test	Guideline 201	
	No data available		
Phenoxyethylacry	Effect Exposure	Species	Value
	dose time		
Toxicity to fish	No data available		
Toxicity to daphnia	No data available		
Toxicity to algae	No data available		
Toxicity to bacteria	No data available		
Tetrahydrofurfuryl	acrylaat		
	Effect Exposure dose 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		
Isodecyl acrylate			
	Effect Exposure dose 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		
Phosphine oxide	diphenyl(2,4,6-trimethyl	benzovl)-	
	Effect Exposure dose time	Species	Value
Toxicity to fish	LC50 96 h	Leuciscus idus (golden orfe)	< 100.00 mg/l
CP		14/10	EN

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



# AJ UV G5 FA RTR MAGENTA INK

SUBID : 000001013953

Print Date 15.02.2016

Version 1 Revision Date 19.03.2015

1		L'étamat ma		1
Toxicity to daphnia	EC0	Literature. 48 h	Daphnia magna (water flea)	< 100.00 mg/l
		Literature.	Dapinia magna (water nea)	< 100.00 mg/i
Toxicity to daphnia	EC50		Daphnia	3.53 mg/l
		Literature.	Dapinia	0.00 mg/r
Toxicity to algae	EC50	72 h	Algae	> 1,000 mg/l
, ,	Method:	Literature.	0	, 0
Toxicity to bacteria	EC50	17 h	Bacteria	> 500.00 mg/l
	Method:	Literature.		-
<ul> <li>phenyl bis(2,4,6-trir</li> </ul>	nethylben	zoyl)-phosph	ine oxide	
	Effect	Exposure	Species	Value
	dose	time		
Toxicity to fish	LC50	96 h	Brachidanio rerio (zebra fish)	> 0.09 mg/l
			Guideline 203	
Toxicity to daphnia	EC50	48 h	Daphnia magna	> 1,175 mg/l
The late of a starter			Guideline 202	0.00
Toxicity to algae	EC50	72 h	Scenedesmus subspicatus	> 0.26 mg/l
	Method		(algae) Guideline 201	
Toxicity to bacteria	EC50	3 h	Bacteria	> 100 mg/l
Toxicity to bacteria		-	eline No.209; 88/302/EEC C.11	> 100 mg/i
			·	
2-Propenoic acid ,1		· ·	lymer with 2-aminoethanol	
	Effect	Exposure	Species	Value
Taulaite ta fiak	dose	time		
Toxicity to fish	No doto	availabla		
Toxicity to daphnia	No data	available		
	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

#### 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:

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





SUBID : 000001013953 Print Date 15.02.2016

Revision Date 19.03.2015

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

No data available

Version 1

#### **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.

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 ADNR. Not regulated according to RID.

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





SUBID : 000001013953

Print Date 15.02.2016

Version 1 Revision Date 19.03.2015

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 Restriction on use	<ul> <li>No</li> <li>Not listed on EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixtures &amp; articles (Reg 1907/2006/EC, as amended</li> </ul>
	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:

	-
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.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause 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:

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



# AJ UV G5 FA RTR MAGENTA INK

SUBID : 000001013953

Print Date 15.02.2016

Version 1

Revision Date 19.03.2015
--------------------------

R22 R34	Harmful if swallowed. Causes burns.
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.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
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.

#### 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

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



# AJ UV G5 FA RTR MAGENTA INK

SUBID : 000001013953

Print Date 15.02.2016

Version 1 Revision Date 19.03.2015

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:	Occupatianal 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:	Treshold Limit Value
TRGS900:	Arbeitsplatzgrenswerte (GE)
TWA:	Time Weighted Average
VOC:	Volatile Organic Compound
vPvB:	very Persistent and very Bioaccumulative substance