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



SUBID: 000001011610

# JETI ANUVIA HDC BLACK INK

Version 1 Print Date 17.06.2016

Revision Date 29.01.2015

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

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

Product name : JETI ANUVIA HDC BLACK 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 (CLF	
Hazard classes	Skin irritation
Hazard categories	Category 2
Hazard statements	H315
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
Hazard classes	Serious eye damage
Hazard categories	Category 1
Hazard statements	H318
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
Hazard classes	Skin sensitizer
Hazard categories	Category 1
Hazard statements	H317
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
Hazard classes	Toxic to reproduction
Hazard categories	Category 1B
Hazard statements	H360FD
Classification procedure	According the classification criteria of CLP Regulation (EC)

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	No 1272/2008.
<ul> <li>Hazard classes</li> </ul>	Chronic hazards to the aquatic environment
Hazard categories	Category 2
Hazard statements	H411
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.

67/548/EEC or 1999/45/EC	
Hazards characteristics	Harmful, Dangerous for the environment
R-phrase(s)	R22, R36/37/38, R41, R43, R51/53

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:

57472-68-1 CAS-No. Oxybis(methyl-2,1-ethanediyl) diacrylate

> 2-(2-Vinyloxyethoxy) ethyl acrylate 86273-46-3

71868-10-5 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-

### Symbol(s)







GHS08



GHS09

GHS05

GHS07 Signal word DANGER

Hazard H315 Causes skin irritation.

statements

H317 May cause an allergic skin reaction. Causes serious eye damage. H318

May damage fertility. May damage the unborn child. H360FD

Toxic to aquatic life with long lasting effects. H411 : P280 Wear protective gloves/protective clothing/eye

Precautionary protection/face protection. statements:

prevention

P201 Obtain special instructions before use.

Use personal protective equipment as required. P281

Avoid release to the environment. P273

P305+P351+P Precautionary IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to statements: 338

remove. Continue rinsing. response

Immediately call a POISON CENTER/doctor/# P310 P308+P313 IF exposed or concerned: Get medical advice/attention.

Collect spillage. P391 Store locked up. : P405

Precautionary statements:

storage

#### 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)

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#### 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)

2-(2-Vinyloxyethoxy) ethyl acrylate
 Concentration [%]: 20.0 - 40.0

CAS-No. : 86273-46-3

REACH Registration No : Transition time according to REACH regulation article 23 is still

not expired.

Hazard classes : Acute toxicity Oral, Skin sensitizer

Hazard categories : Category 4, Category 1

Hazard statements : H302, H317

• Oxybis(methyl-2,1-ethanediyl) diacrylate Concentration [%]: 10.0 - 20.0

CAS-No. : 57472-68-1 EINECS-No. : 260-754-3

REACH Registration No : 01-2119484629-21-XXXX

Hazard classes : Skin irritation, Serious eye damage, Skin sensitizer

Hazard categories : Category 2, Category 1, Category 1

Hazard statements : H315, H318, H317

• 4-(1,1-dimethylethyl)cyclohexyl acrylate Concentration [%]: 10.0 - 20.0

CAS-No. : 84100-23-2 Index-No. : 607-133-00-9 EINECS-No. : 282-104-8

REACH Registration No : Transition time according to REACH regulation article 23 is still

not expired.

Hazard classes : Serious eye irritation, Specific target organ toxicity - single

exposure, Skin irritation, Chronic hazards to the aquatic

environment

Hazard categories : Category 2, Category 3, Category 2, Category 2

Hazard statements : H319, H335, H315, H411

ethoxylated trimethylolpropane triacrylate
 Concentration [%]: 10.0 - 20.0

CAS-No. : 28961-43-5

REACH Registration No : 01-2119489900-30-XXXX

Hazard classes : Serious eye irritation, Skin sensitizer

Hazard categories : Category 2, Category 1

Hazard statements : H319, H317

• 2-[[(butylamino)carbonyl]oxy]ethylacrylaat Concentration [%]: 5.0 - 10.0

CAS-No. : 63225-53-6 EINECS-No. : 264-036-0

REACH Registration No : Transition time according to REACH regulation article 23 is still

not expired.

Hazard classes : Serious eye irritation, Skin irritation

Hazard categories : Category 2, Category 2

Hazard statements : H319, H315

• 2-methyl-1-(4-methylthiophenyl)-2- Concentration [%]: 1.0 - 5.0

morpholinopropan-1-one

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CAS-No. : 71868-10-5 Index-No. : 606-041-00-6 EINECS-No./ELINCS No. : /4006006

REACH Registration No : 01-2119472306-39

Hazard classes : Acute toxicity Oral, Chronic hazards to the aquatic

environment, Toxic to reproduction

Hazard categories : Category 4, Category 2, Category 1B

Hazard statements : H302, H411, H360FD

• 2-benzyl-2-dimethylamino-4- Concentration [%]: 1.0 - 5.0

morpholinobutyrophenone

CAS-No. : 119313-12-1 Index-No. : 606-047-00-9

REACH Registration No : 01-0000015394-70-00XX

Hazard classes : Acute hazards to the aquatic environment, Chronic hazards to

the aquatic environment, Toxic to reproduction

Hazard categories : Category 1, Category 1, Category 2

Hazard statements : H400, H410, H361d

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

• 2-(2-Vinyloxyethoxy) ethyl acrylate Concentration [%]: 20.0 - 40.0 CAS-No. : 86273-46-3 Symbol(s) : Xn R-phrase(s) : R22, R43

CAS-No. : 57472-68-1 EINECS-No. : 260-754-3 Symbol(s) : Xi

R-phrase(s) : R38, R41, R43

• 4-(1,1-dimethylethyl)cyclohexyl acrylate Concentration [%]: 10.0 - 20.0

CAS-No. : 84100-23-2 Index-No. : 607-133-00-9 EINECS-No. : 282-104-8

Symbol(s) : Xi, N

R-phrase(s) : R36/37/38, R51/53

• ethoxylated trimethylolpropane triacrylate Concentration [%]: 10.0 - 20.0

CAS-No. : 28961-43-5 Symbol(s) : Xi

R-phrase(s) : R36, R43

• 2-[[(butylamino)carbonyl]oxy]ethylacrylaat Concentration [%]: 5.0 - 10.0

CAS-No. : 63225-53-6 EINECS-No. : 264-036-0 Symbol(s) : Xi R-phrase(s) : R36/38

• 2-methyl-1-(4-methylthiophenyl)-2- Concentration [%]: 1.0 - 5.0

morpholinopropan-1-one

CAS-No. : 71868-10-5
Index-No. : 606-041-00-6
EINECS-No./ELINCS No. : /4006006
Symbol(s) : Xn, N

R-phrase(s) : R22, R51/53

• 2-benzyl-2-dimethylamino-4- Concentration [%]: 1.0 - 5.0

morpholinobutyrophenone

CAS-No. : 119313-12-1 Index-No. : 606-047-00-9 Symbol(s) : N

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R-phrase(s) : R50/53

### Components with a community workplace exposure limit

- blue organic pigment
- Carbon Black (carbon)
- 4-(1,1-dimethylethyl)cyclohexyl acrylate

#### 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 (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

### 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

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.

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### 6. ACCIDENTAL RELEASE MEASURES

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

Personal precautions : Cleanup personnel must use appropriate personal protective

equipment.

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.

: Observe normal precautions when handling chemicals. Keep Hygiene measures

> 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.

conditions

Further information on storage : 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

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### Carbon Black (carbon) CAS-No.: 1333-86-4

Basis	Revision	Value	Туре	
	Date			
EH40 WEL	2005	3.5 mg/m3	TWA	
EH40 WEL	2005	7 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**

No Chemical Safety Report performed. No DNEL/DMEL value determined.

#### **PNEC**

No Chemical Safety Report performed. No PNEC value determined.

#### 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 >= 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 : Observe normal precautions when handling chemicals.

equipment

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### **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 : Black

Odor : Sweetish smell Odor threshold : No data available

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

pH : Not applicable

Autoignition temperature : No data available Vapour pressure : No data available Relative vapour density : No data available

Relative density : 1.000 - 1.100 Method: Literature.

Density : No data available
Solubility/qualitative : Immiscible with water.
Water solubility : No data available
Partition coefficient (n- : No data available

octanol/water)

Viscosity, dynamic (45 °C) : 9.7 mPa.s Method: Literature.

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:

VOC content : Not applicable

#### 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:

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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 : Avoid contact with strong acids.

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

### Toxicokinetics, metabolism and distribution:

No data available

### Acute effects (toxicity tests):

### > Acute Toxicity

2-(2-Vinyloxyethoxy) ethyl acrylate

	Effect dose	Species	Value	Method
Acute oral toxicity	LD50	rat	1,790 mg/kg	OECD Test
				Guideline 401
Acute oral toxicity	LD50	rat	2,026 mg/kg	OECD Test
				Guideline 401
	Based on av	ailable data,	the classification criteria	are not met.
Acute dermal toxicity	LD50	rat	> 2,000 mg/kg	OECD Test
				Guideline 402
	Based on av	ailable data,	the classification criteria	are not met.
Acute inhalation toxicity	LC50	rat	5.82 mg/l/ 4 h	
				Guideline 403

# • 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	

4-(1,1-dimethylethyl)cyclohexyl acrylate

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	Effect dose	Species	Value Method
Acute oral toxicity	LD50	rat	> 2,000 mg/kg Literature.
	Based on av	ailable data,	the classification criteria are not met.
Acute dermal toxicity			
-	No data avai	lable	
Acute inhalation toxicity			
		ats was obse	could not be determined because no rved at the maximum achievable

• ethoxylated trimethylolpropane triacrylate

	Effect dose	Species	Value	Method
Acute oral toxicity	LD50	rat	> 2,000 mg/kg	OECD Test
-				Guideline 401
	Based on av	ailable data	, the classification criteria	are not met.
Acute dermal toxicity	LD50	rabbit	> 13,200 mg/kg	Literature.
-	Based on av	ailable data	, the classification criteria	are not met.
Acute inhalation toxicity				
	No data avai	lable		

• 2-[[(butylamino)carbonyl]oxy]ethylacrylaat

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

• 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

	Effect dose	Species	Value	Method
Acute oral toxicity	LD50	rat	1,984 mg/kg	OECD Test
				Guideline 401
Acute dermal toxicity	LD50	rat	> 2,000 mg/kg	OECD Test
				Guideline 402
Acute inhalation toxicity	Based on ava LC50 No data avai	·	he classification criteria	are not met.

• 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone

	Effect dose	Species	Value	Method
Acute oral toxicity	LD50	rat	> 5,000 mg/kg	OECD Test
				Guideline 401
	Based on ava	ailable data,	the classification criteria	are not met.
Acute dermal toxicity	LD50	rat	> 2,000 mg/kg	OECD Test
				Guideline 402
	Based on ava	ailable data,	the classification criteria	are not met.
Acute inhalation toxicity				
	No data avai	lable		

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

Specific effects	Affected organs
Based on available data, the classification criteria are not met.	

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### > Irritant and corrosive effects:

	Exposure time	Species	Evaluation	Method
Primary irritation to the skin				
	Irritating to	skin.		
Irritation to eyes	_			
	Risk of seri	ous damage	e to eyes.	

### > Irritation to the respiratory tract:

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

#### > Sensitisation:

Species	Evaluation	Method
	<b>M</b>	
	May cause sensitization	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):

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

### > 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.

### - Toxicity to reproduction

May cause harm to unborn child. Possible risk of impaired fertility.

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### > 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 : May cause harm to unborn child. Possible risk of impaired fertility.

### **Experiences made in practice:**

At high concentrations the monomer vapours can cause eye and nose irritation. 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.

### 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity:

• 2-(2-Vinyloxyethoxy) ethyl acrylate

	Effect Exp	posure	Species	Value
	dose tim	е		
Toxicity to fish	LC50 96	h	Brachidanio rerio (zebra fish)	6.8 mg/l
	Method: OE0	CD Test	Guideline 203	
Toxicity to fish	NOEC 96	h	Brachidanio rerio (zebra fish)	2.2 mg/l
	Method: OE0	CD Test	Guideline 203	
Toxicity to fish	LC100 96	h	Brachidanio rerio (zebra fish)	10 mg/l
	Method: OE0	CD Test	Guideline 203	
Toxicity to daphnia	EC50 48	h	Daphnia magna	55 mg/l
	Method: OE0	CD Test	Guideline 202	
Toxicity to daphnia	EC100 48	h	Daphnia magna	100 mg/l
	Method: OE0	CD Test	Guideline 202	
Toxicity to daphnia	NOEC 48	h	Daphnia magna	25 mg/l
	Method: OE0	CD Test	Guideline 202	
Toxicity to algae	EC50 72	h	Scenedesmus subspicatus	5 mg/l
			(algae)	
	Method: OE0	CD Test	Guideline 201	
Toxicity to algae	NOEC 72	h	scenedesmus subspicatus	0.78 mg/l
	Method: OE0	CD Test	Guideline 201	
Toxicity to algae	LOEC 72	h	scenedesmus subspicatus	2.7 mg/l
	Method: OE0	CD Test	Guideline 201	
Toxicity to bacteria	IC50 3 h			741 mg/l
	Method: OE0	CD-Guid	leline No.209; 88/302/EEC C.11	_

Oxvbis(methyl-2.1-ethanediyl) diacrylate

• Oxybia(illetifyi-2, i-	ounanious,	ij didor frato		
	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 o	n available d	data, the classification criteria are not	met.
Toxicity to daphnia	EC50	48 h	Daphnia magna	22.3 mg/l
	Method:	Literature.		
	Based o	n available d	data, the classification criteria are not	met.
Toxicity to algae	EC50	72 h	Algae	< 16.7 mg/l
	Method:	Literature.	-	
	Based o	n available d	data, the classification criteria are not	met.

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Toxicity to bacteria	
	No data available

### • 4-(1,1-dimethylethyl)cyclohexyl acrylate

	Effect	Exposure	Species	Value
	dose	time		
Toxicity to fish	LC50	96 h	Brachidanio rerio (zebra fish)	1 to 10 mg/l
-	Method:	OECD Test	Guideline 203	_
Toxicity to daphnia	EC50	48 h	Daphnia	0.772 mg/l
	Method:	Literature.	•	_
Toxicity to algae	EC50	96 h	Algae	0.091 mg/l
	Method:	Literature.	•	
Toxicity to bacteria	EC50		Pseudomonas putida	> 1,000 mg/l
			(bacteria)	
	Method:	DIN 38412	· ,	

### • ethoxylated trimethylolpropane triacrylate

	Effect	Exposure	Species	Value
	dose	time		
Toxicity to fish	LC50	96 h	Brachidanio rerio (zebra fish)	1.95 mg/l
	Method	: OECD Test	Guideline 203	
Toxicity to daphnia	EC50	48 h	Daphnia magna	7.07 mg/l
	Method	: OECD Test	Guideline 202	_
Toxicity to algae		72 h	Desmodesmus subspicatus	2.2 mg/l
			(algae)	_
	Method	: OECD Test	Guideline 201	
Toxicity to bacteria	EC10	3 h		292 mg/l
	Method	OECD-Guid	deline No.209; 88/302/EEC C.11	Ū

### • 2-[[(butylamino)carbonyl]oxy]ethylacrylaat

	Effect Exposure dose time	Species	Value			
Toxicity to fish						
	No data available					
Toxicity to daphnia						
Toyloity to algo	No data available					
Toxicity to algae	No data available					
Toxicity to bacteria	INO data avaliable					
Tomony to buotona	No data available					

### • 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

	Effect	Exposure	Species	Value
	dose	time		
Toxicity to fish	LC50	96 h	Brachidanio rerio (zebra fish)	9 mg/l
	Method	: OECD Test	Guideline 203	
Toxicity to daphnia	EC50		Daphnia magna	15.3 mg/l
	Method	: OECD Test	Guideline 202	
Toxicity to algae	EC50		scenedesmus subspicatus	1.7 mg/l
	Method	: OECD Test	Guideline 201	
Toxicity to bacteria	EC50			> 100 mg/l
-	Method	: OECD-Guid	deline No.209; 88/302/EEC C.11	-

### • 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone

Effect	Exposure	Species	Value
dose	time		

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



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Toxicity to fish	LC50 96 h		0.46 mg/l
	Method: OECD	Test Guideline 203	
Toxicity to daphnia	EC50 24 h	Daphnia magna	> 0.8 mg/l
	Method: OECD	Test Guideline 202	
Toxicity to algae	EC50 72 h	Selenastrum capricornutum	> 2 mg/l
		(algae)	
	Method: OECD	Test Guideline 201	
Toxicity to bacteria	EC50 3 h		> 100 mg/l
	Method: OECD	-Guideline No.209; 88/302/EEC C.11	

### 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:

### 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:

GB	14/18	EN
1-R	1/1/18	⊢NI

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



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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

**ADR** 

UN-No : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Acrylate)

Class : 9
Packing group : III
Classification Code : M6
Labelling No. : 9
Risk No. : 90
Environmentally Hazardous : Yes

**RID** 

UN-No : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Acrylate)

Class : 9
Packing group : III
Classification Code : M6
Labelling No. : 9
Risk No. : 90

**ADNR** 

UN-No : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Acrylate)

Class : 9
Packing group : III
Classification Code : M6
Labelling No. : 9

GB 15/18 EN

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



# JETI ANUVIA HDC BLACK INK

SUBID: 000001011610

Version 1 Print Date 17.06.2016

Revision Date 29.01.2015

Risk No. : 90

**IMO / IMDG** 

UN-No : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Acrylate)

Class : 9
Packing group : III
Labelling No. : 9

EmS : F-A, S-F

Marine pollutant : P

ICAO / IATA cargo aircraft only

UN-No : 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Acrylate)

Class : 9
Packing group : III
Labelling No. : 9MI
Packing instruction : 964

ICAO / IATA passenger and cargo aircraft

UN-No : 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Acrylate)

Class : 9
Packing group : III
Labelling No. : 9MI
Packing instruction : 964

### 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:

GB 16/18 EN

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



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H411

Harmful if swallowed. H302 Causes skin irritation. H315 May cause an allergic skin reaction. H317 Causes serious eye damage. H318 Causes serious eye irritation. H319 H335 May cause respiratory irritation. H360FD May damage fertility. May damage the unborn child. Suspected of damaging the unborn child. H361d Very toxic to aquatic life. H400 Very toxic to aquatic life with long lasting effects. H410

Toxic to aquatic life with long lasting effects.

### 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.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

#### **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.

IUCLÍD 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

GB 17/18 EN

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



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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 Effective Concentration 0% EC0: Effective Concentration 5% EC5: EC10: Effective Concentration 10% EC50: Median Effective Concentration Effective Concentration 100% EC100: EH40 WEL: Workplace Exposure Limit (UK) International Air Transport Association IATA: International Civil Aviation Organization ICAO:

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

GB 18/18 EN