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



ANAPURNA L/XL/XL² WHITE G2 INK

SUBID: 000001010031

Print Date 17.01.2014

Version 1 Revision Date 28.03.2013

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

1.1 Identification of the substance or mixture:

Product name : ANAPURNA L/XL/XL2 WHITE G2 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 : Only for professional use. Do not use for products which come

into direct contact with food stuffs. Do not use for products which come into direct contact with the skin. 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

Person responsible for the safety data sheet: Jos Vanholzaets

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	Skin irritation
Hazard categories	Category 2
Hazard statements	H315
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	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	Toxic to reproduction
Hazard categories	Category 2
Hazard statements	H361fd

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Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
 Hazard classes 	Specific target organ toxicity - repeated exposure
Hazard categories	Category 2
Hazard statements	H373
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)	R22, R36/38, R43, R48/22, 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. 75980-60-8 Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-

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

15625-89-5 2-Ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl

diacrylate

Symbol(s)







GHS08

Signal word	:	WARNING
Hazard	:	H315

statements H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

May cause damage to organs through prolonged or H373

repeated exposure.

Causes skin irritation.

Harmful to aquatic life with long lasting effects. H412

Obtain special instructions before use. P201

Precautionary statements:

prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P281 Use personal protective equipment as required.

P273 Avoid release to the environment.

Precautionary statements:

response

P333+P313

If skin irritation or rash occurs: Get medical

advice/attention.

P363 Wash contaminated clothing before reuse.

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P337+P313 If eye irritation persists: Get medical advice/attention. P308+P313 IF exposed or concerned: 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)

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, Specific target organ

toxicity - repeated exposure Oral

Hazard categories : Category 4, Category 1, Category 2

Hazard statements : H302, H317, H373

• 2-Ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3- Concentration [%]: 20.0 - 40.0

propanediyl diacrylate

CAS-No. : 15625-89-5 Index-No. : 607-111-00-9 EINECS-No. : 239-701-3

REACH Registration No : Substance must not be registered according to REACH annex

IV and V.

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

Hazard categories : Category 2, Category 2, Category 1

Hazard statements : H319, H315, H317

• Phosphine oxide, diphenyl(2,4,6- Concentration [%]: 1.0 - 5.0

trimethylbenzoyl)-

CAS-No. : 75980-60-8 EINECS-No. : 278-355-8

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

not expired.

Hazard classes : Toxic to reproduction, Chronic hazards to the aquatic

environment

Hazard categories : Category 2, Category 3

Hazard statements : H361fd, H412

• 2,4,6-trimethylbenzophenone Concentration [%]: 0.1 - 0.5

CAS-No. : 954-16-5 Index-No. : 606-044-00-2 EINECS-No./ELINCS No. : /4031509

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

not expired.

Hazard classes : Acute toxicity Oral, Serious eye irritation, Acute hazards to the

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aquatic environment, Chronic hazards to the aquatic

environment

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

Hazard statements : H302, H319, H400, H410

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, R48/22

• 2-Ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3- Concentration [%]: 20.0 - 40.0

propanediyl diacrylate

CAS-No. : 15625-89-5 | Index-No. : 607-111-00-9 | EINECS-No. : 239-701-3

Symbol(s) : Xi

R-phrase(s) : R36/38, R43

• Phosphine oxide, diphenyl(2,4,6- Concentration [%]: 1.0 - 5.0

trimethylbenzoyl)-

CAS-No. : 75980-60-8 EINECS-No. : 278-355-8 Symbol(s) : Xn

R-phrase(s) : R62, R52/53

• 2,4,6-trimethylbenzophenone Concentration [%]: 0.1 - 0.5

CAS-No. : 954-16-5 Index-No. : 606-044-00-2 EINECS-No./ELINCS No. : /4031509

Symbol(s) : Xn, N

R-phrase(s) : R22, R36, R50/53

Components with a community workplace exposure limit

• 2-Ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate

Titanium dioxide

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.

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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

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.

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.

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> : 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

conditions

: Keep container tightly closed. Keep in a dry place.

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

• Titanium dioxide CAS-No.: 13463-67-7

Basis	Revision	Value	Type	
	Date			
EH40 WEL	2005	4 mg/m3	TWA	
EH40 WEL	2005	10 mg/m3	TWA	

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:

> Instructual 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.

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> 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, for example KCL 898 Butoject (full contact),

KCL 890 Vito Ject (splash contact).

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

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. Colour : White.

Odour : Characteristic smell.
Odour threshold : No data available

9.1.2 Important health, safety and environmental information:

pH : Not applicable

Melting point/range : $< 0 \, ^{\circ}\text{C}$ Method: Literature. Boiling point/range : $> 100 \, ^{\circ}\text{C}$ Method: Literature. Flash point : $> 62 \, ^{\circ}\text{C}$ Method: Literature.

Autoignition temperature : No data available

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

Relative density (23 °C) : 1.230 Method: Literature.

Density : No data available
Solubility/qualitative : Immiscible with water.
Water solubility : No data available
Partition coefficient (n- : Not applicable

octanol/water)

Viscosity, dynamic : No data available
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:

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

Toxicity data specific for individual ingredients in their pure state:

Toxicokinetics, metabolism and distribution:

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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	Based on available data, the classification criteria are not met.				
Acute dermal toxicity	LD50	rat	> 2,000 mg/kg	OECD Test		
				Guideline 402		
	Based on av	Based on available data, the classification criteria are not met.				
Acute inhalation toxicity	LC50	rat	5.82 mg/l/ 4 h	OECD Test		
				Guideline 403		

• 2-Ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate

	,. ,.	<u> </u>	•
	Effect dose	Species	Value Method
Acute oral toxicity	LD50	rat	> 3,000 mg/kg Literature.
-	Based on av	ailable data,	the classification criteria are not met.
Acute dermal toxicity	LD50	rabbit	> 6,000 mg/kg Literature.
	Based on av	ailable data,	the classification criteria are not met.
Acute inhalation toxicity			
	No data avai	lable	

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

	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			
	No data avai	lable	

• 2,4,6-trimethylbenzophenone

	Effect dose	Species	Value	Method
Acute oral toxicity				
	No data avai	lable		
Acute dermal toxicity				
	No data avai	lable		
Acute inhalation toxicity				
	No data avai	lable		

> Specific target organ toxicity (STOT):

Specific effects	Affected organs
No data available	

> Irritant and corrosive effects:

• 2-(2-Vinyloxyethoxy) ethyl acrylate

Exposure	Species	Evaluation	Method	

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	time		
Primary irritation to the skin	rabbit	Moderate skin irritation	OECD Test Guideline 404
Irritation to eyes	rabbit	No eye irritation	OECD Test
		,	Guideline 405

• 2-Ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate

	Exposure time	Species	Evaluation	Method
Primary irritation to the skin		rabbit	Irritating to skin.	OECD Test Guideline 404
Irritation to eyes			Severe eye irritation.	Literature.

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

T Hoopimio oxido, diprior	, , , ,			
	Exposure	Species	Evaluation	Method
	time			
Primary irritation to the skin		rabbit	No skin irritation	OECD Test
				Guideline 404
	Based on a	vailable data,	the classification criteria	a are not met.
Irritation to eyes		rabbit	No eye irritation	OECD Test
			·	Guideline 405
	Based on a	vailable data,	the classification criteria	a are not met.

• 2,4,6-trimethylbenzophenone

Exposure time	Species	Evaluation	Method
No data ava	ailable		
No data ava	ailable		
	time No data ava		time No data available

> Irritation to the respiratory tract:

No data available

> Sensitisation:

• 2-(2-Vinyloxyethoxy) ethyl acrylate

Species	Evaluation	Method
mouse	May cause sensitisation by skin	Mouse local lymphoma assay.
	contact.	

• 2-Ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate

Species	Evaluation	Method
	May cause sensitisation by skin	Literature.
	contact.	

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

Species	Evaluation	Method
	Did not cause sensitization on laboratory animals.	Literature.

• 2,4,6-trimethylbenzophenone

Species	Evaluation	Method
	No data available	

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> Aspiration hazard:

No data available

Sub-acute, sub-chronic and chronic toxicity

> Repeated dose toxicity:

2-(2-Vinyloxyethoxy) ethyl acrylate

	Effect dose	Value	Exposure time	Species
Sub-acute oral	NOEL	160 mg/kg	28-day	rat
	Method: OECD	Test Guideline 407		

• 2-Ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate

No data available

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

No data available

2,4,6-trimethylbenzophenone

No data available

> Specific target organ toxicity (STOT):

Meets the criteria of 3.9.2 of CLP-Regulation (EC) No.1272/2008.

> 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

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

- Genetic toxicity in vivo

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 impair fertility. May cause harm to the unborn child.

> 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 impair fertility. May cause harm to the unborn child.

Experiences made in practice:

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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 Exposure Species	Value
	dose time	
Toxicity to fish	LC50 96 h Brachida	anio rerio (zebra fish) 6.8 mg/l
	Method: OECD Test Guideline	203
Toxicity to fish	NOEC 96 h Brachida	anio rerio (zebra fish) 2.2 mg/l
	Method: OECD Test Guideline	203
Toxicity to fish	LC100 96 h Brachida	anio rerio (zebra fish) 10 mg/l
	Method: OECD Test Guideline	203
Toxicity to daphnia	EC50 48 h Daphnia	magna 55 mg/l
	Method: OECD Test Guideline	202
Toxicity to daphnia	EC100 48 h Daphnia	magna 100 mg/l
	Method: OECD Test Guideline	202
Toxicity to daphnia	NOEC 48 h Daphnia	magna 25 mg/l
	Method: OECD Test Guideline	202
Toxicity to algae	EC50 72 h Scenede	esmus subspicatus 5 mg/l
-	(algae)	
	Method: OECD Test Guideline	201
Toxicity to algae	NOEC 72 h scenede	smus subspicatus 0.78 mg/l
-	Method: OECD Test Guideline	201
Toxicity to algae	LOEC 72 h scenede	smus subspicatus 2.7 mg/l
-	Method: OECD Test Guideline	201
Toxicity to bacteria	IC50 3 h	741 mg/l
-	Method: OECD-Guideline No.2	09; 88/302/EEC C.11

2-Ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate

	Effect	Exposure	Species	Value
	dose	time		
Toxicity to fish				
	No data	available		
Toxicity to daphnia				
	No data	available		
Toxicity to algae				
Tavialto ta baataria	No data	available		
Toxicity to bacteria	No doto	واطوائوي		
	ino data	available		

Phosphine oxide, diphenyl(2.4.6-trimethylbenzoyl)-

• 1 Hospitile oxide, diplicity (2,4,6 tillicity) believed				
	Effect	Exposure	Species	Value
	dose	time		
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 algae	EC50	72 h	Algae	> 1,000 mg/l
	Method:	Literature.	-	

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Toxicity to bacteria	EC50	17 h	Bacteria	> 500.00 mg/l
	Method: Literature.			

• 2,4,6-trimethylbenzophenone

	Effect Expo dose time	sure Species	Value
Toxicity to fish	Method: Litera	Pisces (fish) ture.	100 mg/l
Toxicity to daphnia	No data availa	hle	
Toxicity to algae	No data available		
Toxicity to bacteria			
	No data availa	ble	

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

2-(2-Vinyloxyethoxy) ethyl acrylate

Value	Exposure time	Method	Evaluation	
_		OECD-Guideline No.301C	Readily biodegradable.	

• 2-Ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate

No data available

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

No data available

• 2,4,6-trimethylbenzophenone

No data available

Biochemical Oxygen Demand (BOD)

No data available

12.3 Bioaccumulative potential:

Partition coefficient (n-octanol/water)

Not applicable

Bioconcentration factor (BCF)

Bioaccumulation is unlikely.

12.4 Mobility in soil:

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



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No information available.

Henry's constant

Value	Temperature	Method
		No information available.

Transport between environmental compartments

Not applicable

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:

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

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 this 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.

Not regulated according to IMO/IMDG.

Not regulated according to ICAO/IATA aircraft only.

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

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



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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:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful 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.
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, 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.

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



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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. 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

Arbeitsplatzgrenswerte (GE) AGW:

Acute toxicity estimate of the mixture ATEmix:

Classification, Labelling and Packaging of substances and mixtures CLP:

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) International Air Transport Association IATA: International Civil Aviation Organization ICAO:

inhibitory concentration 50% IC50:

IMDG: International Maritime Dangerous Goods International Maritime Organization IMO:

International Uniform ChemicaL Information Database IUCLID:

Lethal Concentration 50% LC50: LC100: Lethal Concentration 100%

LOAEL: Lowest Observed Adverse Effect Level Lethal Dose (minimum found to be lethal) LDL0

LD50: Lethal Dose 50%

Maximaal Aanvaardbare Concentratie (NL) MAC: Maximale Arbeitsplatz-Konzentration MAK: No Observed Adverse Effect Level NOAEL:

NOEL: No Observed Effect Level

No Observed Effect Concentration NOEC: OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative and Toxic substance

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



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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 17/17 EN