

According to regulation (EC) No. 1907/2006 (Reach Annex II)

ARIGI UV K3 CYAN INK

Version 1.0

1.4.

2.2.

Revision Date: 2014-11-19Print Date: 2014-11-19

ATTENTION: the safety data of this research product are still incomplete!

The information stated is based upon the data relating to the most significant hazardous component(s).

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

1.1. Product identifier

Product Name: ARIGI UV K3 CYAN INK Product numbers: TEST INK REACH Registration No.: Registration numbers of the individual components: see section 3, if applicable.

1.2. Relevant uses

Indentified relevant use :

Sector of use.....: Research laboratorium substance/mixture Product category.....: Laboratory chemicals

Uses advised against .: non-professional use

1.3. Details of the supplier of the safety data sheet

Agfa-Gevaert N.V. Septestraat, 27 B - 2640 Mortsel Tel.: +32 3 444 55 01 Fax.: +32 3 444 55 03 E-mail: electronic.sds@agfa.com

Authorized author of this safety data sheet : VAN DYCK GEERT Emergency telephone number

Emergency telephone number :+32 3 444 3333 (24h/24h)

2. ADDITIONAL INFORMATION

2.1. Classification of substance or mixture

Productdefinition : Mixture;Laboratory chemicals

2.1.1. Regulation(EC) No 1272/2008 (CLP)

(ATP05)

section	:Class
3.1	:acute toxicity oral [Cat.4] (H302)
3.2	:skin corrosion or irritation
3.4B	:skin sensitisation[Cat.1] (H317)
3.3	:eye damage or irritation [Cat.1] (H318)
3.7	:reproductive toxicity [Cat.2] (H361)
3.9	:stot repeated exposure [Cat.1] (H372)
4.1B	:chronic aquatic hazard[Cat.3] (H412)

2.1.2. 67/548/EEC or 1999/45/EC

symbols.....: Xn-Xi Risks.....: R22-R36-R43-R41-R62-R63-R48-R52/53-

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





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GHS07exclamation mark
GHS05corrosion
GHS08health hazard
Danger
H302Harmful if swallowed.
H315Causes skin irritation.
H317May cause an allergic skin reaction.
H318Causes serious eye damage.
H361Suspected of damaging fertility or the unborn child .
H372Causes damage to organs through prolonged or repeated exposure.
H412Harmful to aquatic life with long lasting effects.
EUH208Contains. May produce an allergic reaction.
EUH210Safety data sheet available on request.
P201Obtain special instructions before use.
P202Do not handle until all safety precautions have been read and understood.
P260Do not breathe dust/fume/gas/mist/vapours/spray.
P261Avoid breathing dust/fume/gas/mist/vapours/spray.
P264Wash … thoroughly after handling.
P270Do no eat, drink or smoke when using this product.

2.3. Other hazards

Additional Information

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3. THE HAZARD AND LABELING 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

The hazard and labeling 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 Mixture;Laboratory chemicals

Hazardous components in the meaning of regulation (EC) No 1272/2008 (CLP) 40- 60% : 2-(2-VINYLOXYETHOXY)ETHYL ACRYLATE

CASRN:0086273-46-3	EC:00000000000	INDEX:		REACHID: [CONFIDENTIAL]
GHS-picto	gram: GHS07			
GHS-signa	lword: Warning			
GHS-hazar	d: H302 H3	17		
GHS-class	es:			
GHS Acute	Toxicity (Estimate)	Mammali	an - LD50/LC	50
oral		: 0	mg/kg	
dermal		: 0	mg/kg	
inhala	tion	: 0	mg/l	
gases.		: 0	ppmV	
mist/d	ust	: 0	mg/l	
GHS Aquat	ic Toxicity(Estimate) - LC50	/EC50/ErC50	
acute.		: 0	mg/l	
chroni	c	: 0	mg/l	
acute	M-factor	: 0		
chroni	c M-factor	: 0		



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The product should be handled with the appropriate care and attention.

The product should be handled with the appropriate care and alternation.
GHS Acute Toxicity (Estimate) Mammalian - LD50/LC50
oral
dermal
inhalation: 0 mg/l
gases: 0 ppmV
mist/dust:: 0 mg/l
GHS Aquatic Toxicity(Estimate) - LC50/EC50/ErC50
acute:: 0 mg/l
chronic: 0 mg/l
acute M-factor
chronic M-factor
Water hazard class(WGK) 2
GHS unknown oral toxicity: false
GHS unknown dermal toxicity false
GHS unknown inhalation toxicity: false
GHS Non-Additivity false
1- 5% : DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE
CASRN:0075980-60-8 EC:278-355-8 INDEX:015-203-00-X REACHID:01-2119972295-29
GHS-pictogram: GHS08
GHS-signalword: Warning
GHS-hazard H361f
GHS-classes:
GHS Acute Toxicity (Estimate) Mammalian - LD50/LC50
oral
dermal 0 mg/kg
inhalation: 0 mg/l
gases: 0 pmV
mist/dust
GHS Aquatic Toxicity(Estimate) - LC50/EC50/ErC50
acute:: 0 mg/1
chronic
acute M-factor: 0
chronic M-factor
Water hazard class(WGK) 2
GHS unknown oral toxicity: false
GHS unknown dermal toxicity: false
GHS unknown inhalation toxicity: false
GHS Non-Additivity false
5- 10% : Multifunctional Acrylate
GHS-pictogram: GHS07
GHS-signalword: Warning
GHS-hazard: H315 H319 H317
GHS-classes:
GHS Acute Toxicity (Estimate) Mammalian - LD50/LC50
oral 0 mg/kg
dermal 0 mg/kg
inhalation: 0 mg/l
gases 0 ppmV
mist/dust: 0 mg/l
GHS Aquatic Toxicity(Estimate) - LC50/EC50/ErC50
acute
chronic
acute M-factor: 0
chronic M-factor: 0



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4. FOLLOWING EYE CONTACT



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4.1. C	Description of first aid measures					
	4.1.1. General notes					
	General Advice:					
4.1.2	4.1.2. Following inhalation					
	not available					
4.1.3	. Following skin contact					
	not available					
4.1.4	. Following eye contact					
	not available					
4.1.5	. Following ingestion					
		omiting at the instruction of medical personnel. Seek medical				
	advice.					
4.1.6	. Self-protection of the first aide)r				
	not available	ante hetherente en delenned				
	lost important symptoms and eff	ects, both acute and delayed				
	ot available	ad attention and analial treatment needed				
		cal attention and special treatment needed				
IN	lotes for the doctor	In case of shortness of breath, give oxygen. Keep victim warm.				
	CIAL PROTECTIVE ACTION	15 FUR FIRE FIGHTERS				
	xtinguishing media					
	owder, foam, carbon dioxide (
	Special hazards arising from the s					
		emission of toxic or caustic fumes possible.				
	dvice for firefighters					
	n case of fire: Wear self-cor eep away from heat or open fl	ntained breathing apparatus. Protective clothing.				
	Additional Information	.ame.				
-	collect contaminated fire exti	newighing water generately				
C	offect containinated fife exti	inguishing water separatery.				
	CLEANING UP					
		equipment and emergency procedures				
6.1.1	. For non-emergency personne					
	Protective equipment:	Eye-rinsing bottle with pure water. Close-fitting safety				
	Emergency procedures:	goggles. Wear impermeable gloves. Mark off the place of the accident for other road users. The				
	Emergency procedures.	product must be treated with the usual care for chemicals. No				
		smoking/no open fire. Consult an expert. See section 14 for				
		available EmS-code (IMDG)				
6.1.2	. For emergency responders					
	For emergency responders:	Wear Protective clothing. Wear breathing apparatus if exposed				
		to vapours/dusts/aerosols.				
	Personal protective equipme					
6.2. E	Environmental precautions					
	•	information for the substances employed was not				

The relevant environmental information for the substances employed was not available at the time of compilation of this document. Avoid release to the environment. If the product has entered the sewer or a water-course, warn police / fire-brigade.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

Keep away from heat or open flame.

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6.3.2. For cleaning up

Moisten spilled product with water and shovel up. Collect the product in another vessel. Carefully collect leftovers. Carry away the product to a safe site.

6.3.3. Other information

If the product has entered the sewer or a water-course, warn police / fire-brigade. **Reference to other sections**

6.4.

See section 14 for available EmS-code (IMDG).

See section 13 for waste disposal.

6.5. Additional Information

not available

7. HANDLING

Precautions for safe handling 7.1.

7.1.1. Protective measures

The product should be handled with the care usual when dealing with chemicals.

7.1.2. Advice on general occupational hygiene

Do no eat, drink or smoke when using this product. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

No smoking/no open fire. Store in a dry place and well closed. Keep only in original container.

List of EU- and country-specific regulations for Mixture/Substance

DE TRGS 510 Lagerung von Gefahrstoffen in ortsbeweglichen Behältern (LGK) Storage hazardclass: LGK6.1D: Non-combustible, acute toxicity, categories 3 / toxic or hazardous substances with chronic effects

7.3. Specific end uses

Use as laboratory reagent

8. BODY PROTECTION

8.1. **Control parameters**

8.1.1. Occupational exposure limits

List of occupational exposure limits (OEL) from EC and country specific regulations not available

8.1.2. Biological limit values

LIST OF BIOLOGICAL LIMIT VALUES (BLV) ----not available

8.1.3. Exposure limits at intended use

not available

8.1.4. DNEL/PNEC-values

List of derived no-effect effect limits (DNEL) -> CASRN0057472-68-1: OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE



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DNEL, workers:

inhalation(systemic)....: 24.48 mg/m3

8.1.5. Risk management measures according to used control banding approach

Control banding for chemicals according to the ILO CHEMICAL CONTROL TOOLKIT (ICCT): not available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Observe good industrial hygiene practices

8.2.2. Persona	l protective eq	uipment
----------------	-----------------	---------

gloves made of the materials: butyl rubber (thickness 0.36 mm, breakthrough time > 480 min), nitrile rubber (thickness >= 0.38 mm, breakthrough time > 480 min) o neoprene (thickness >= 0.65 mm, breakthrough time > 2		
Hand protection	Eye / Face protection	Safety glasses or face screen
<pre>prolonged immersion or frequently repeated contact us gloves made of the materials: butyl rubber (thickness 0.36 mm, breakthrough time > 480 min), nitrile rubber (thickness >= 0.38 mm, breakthrough time > 480 min) of neoprene (thickness >= 0.65 mm, breakthrough time > 2 min). For intermittent splash Protection correspondir gloves with breakthrough times > 60 min can be used. Avoid gloves made of natural latex. Respiratory protection Under normal conditions of use, respirator protection not required. If respirators are used, institute a program in accordance with local regulations and standards. Thermal hazards Under normal conditions of use, thermal protection not</pre>	Skin protection	Wear suitable protective clothing.
<pre>(thickness >= 0.38 mm, breakthrough time > 480 min) of neoprene (thickness >= 0.65 mm, breakthrough time > 2 min). For intermittent splash Protection corresponding gloves with breakthrough times > 60 min can be used. Avoid gloves made of natural latex. Respiratory protection Under normal conditions of use, respirator protection not required. If respirators are used, institute a program in accordance with local regulations and standards. Thermal hazards</pre>	Hand protection	Wear appropriate chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butyl rubber (thickness >=
neoprene (thickness >= 0.65 mm, breakthrough time > 2 min). For intermittent splash Protection correspondir gloves with breakthrough times > 60 min can be used. Avoid gloves made of natural latex. Respiratory protection Under normal conditions of use, respirator protection not required. If respirators are used, institute a program in accordance with local regulations and standards. Thermal hazards		0.36 mm, breakthrough time > 480 min), nitrile rubber
<pre>min). For intermittent splash Protection correspondir gloves with breakthrough times > 60 min can be used. Avoid gloves made of natural latex. Respiratory protection Under normal conditions of use, respirator protectior not required. If respirators are used, institute a program in accordance with local regulations and standards. Thermal hazards Under normal conditions of use, thermal protection not</pre>		(thickness >= 0.38 mm, breakthrough time > 480 min) or
Avoid gloves made of natural latex. Respiratory protection Under normal conditions of use, respirator protection not required. If respirators are used, institute a program in accordance with local regulations and standards. Thermal hazards Under normal conditions of use, thermal protection no		<pre>neoprene (thickness >= 0.65 mm, breakthrough time > 240 min). For intermittent splash Protection corresponding</pre>
Respiratory protection Under normal conditions of use, respirator protection not required. If respirators are used, institute a program in accordance with local regulations and standards. Thermal hazards		gloves with breakthrough times > 60 min can be used.
not required. If respirators are used, institute a program in accordance with local regulations and standards. Thermal hazards		Avoid gloves made of natural latex.
standards. Thermal hazards Under normal conditions of use, thermal protection no	Respiratory protection	· al a
Thermal hazards Under normal conditions of use, thermal protection no		program in accordance with local regulations and
	Thermal hazards	

8.2.3. Environmental exposure controls

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

8.2.4. Consumer exposure control not applicable

9. APPEARANCE

9.1. Information on basic physical and chemical properties

9.1.1. Appearance

Appearance: liquid Colour: cyan Odour: characteristic Odour threshold: not available

9.1.2. Safety relevant basic data

pH (25°C) i not available



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9.1.3. Physical hazards

To be annexed to this SDS after REACH registration is completed

9.2. Other information

not available

10. STABILITY AND REACTIVITY

10.1. Reactivity

Non-examined product. Reactivity is not to be expected under normal conditions of temperature and pressure.

10.2. Chemical Stability

Probably stable material. No information is available on the behaviour of the product in the event of rupture of the packaging.

10.3. Possibility of hazardous reactions

Decomposition temperature: not available Decomposition energy: not available Exothermal reaction.....: not available

10.4. Conditions to avoid

Dust explosion class..... : not available Explosion by shock..... : not available Explosion by friction..... : not available

10.5. Incompatible materials

Non-examined product, no dangers known.

10.6. Hazardous decomposition products

When heated to decomposition, emission possible of toxic or caustic fumes.

11.TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1. Acute Toxicity



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Respiratory/skin sensitization of individual components in pure state :



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The product should be handled with the appropriate care and attention. -> CASRN0086273-46-3: 2-(2-VINYLOXYETHOXY)ETHYL ACRYLATE May cause an allergic skin reaction. -> CASRN0057472-68-1: OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE May cause an allergic skin reaction. -> CASRN0002235-00-9: 1-VINYLHEXAHYDRO-2H-AZEPIN-2-ONE May cause an allergic skin reaction. : Multifunctional Acrylate May cause an allergic skin reaction. -> CASRN0162881-26-7: PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE May cause an allergic skin reaction. 11.1.5. germ cell mutagenicity Mutagenicity of substance/mixture as a whole : Based on available data, the classification criteria are not met. Mutagenicity of individual components in pure state : _____ -> CASRN0086273-46-3: 2-(2-VINYLOXYETHOXY)ETHYL ACRYLATE no data available -> CASRN0057472-68-1: OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE no data available -> CASRN0001330-61-6: ISODECYL ACRYLATE no data available -> CASRN0002235-00-9: 1-VINYLHEXAHYDRO-2H-AZEPIN-2-ONE no data available -> CASRN0075980-60-8: DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE no data available : Multifunctional Acrylate no data available -> CASRN0162881-26-7: PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE no data available 11.1.6. carcinogenicity carcinogenicity of substance/mixture as a whole : Based on available data, the classification criteria are not met. carcinogenicity of individual components in pure state : _____ -> CASRN0086273-46-3: 2-(2-VINYLOXYETHOXY)ETHYL ACRYLATE no data available -> CASRN0057472-68-1: OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE no data available -> CASRN0001330-61-6: ISODECYL ACRYLATE no data available -> CASRN0002235-00-9: 1-VINYLHEXAHYDRO-2H-AZEPIN-2-ONE no data available -> CASRN0075980-60-8: DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE no data available : Multifunctional Acrylate no data available -> CASRN0162881-26-7: PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE no data available



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11.1.7. reproductive toxicity

```
Reproductive toxicity of substance/mixture as a whole :
       _____
       Suspected of damaging fertility or the unborn child
       Reproductive toxicity of individual components in pure state :
       _____
       -> CASRN0086273-46-3: 2-(2-VINYLOXYETHOXY)ETHYL ACRYLATE
            no data available
       -> CASRN0057472-68-1: OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE
            no data available
       -> CASRN0001330-61-6: ISODECYL ACRYLATE
            no data available
       -> CASRN0002235-00-9: 1-VINYLHEXAHYDRO-2H-AZEPIN-2-ONE
            no data available
       -> CASRN0075980-60-8: DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE
       Suspected of damaging fertility.
       : Multifunctional Acrylate
            no data available
       -> CASRN0162881-26-7: PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE
            no data available
11.1.8.
       Specific target organ toxicity-single exposure (STOT-SE)
       STOT-SE of substance/mixture as a whole :
       _____
       Based on available data, the classification criteria are not met.
       STOT-SE of individual components in pure state :
       -> CASRN0086273-46-3: 2-(2-VINYLOXYETHOXY)ETHYL ACRYLATE
            no data available
       -> CASRN0057472-68-1: OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE
            no data available
       -> CASRN0001330-61-6: ISODECYL ACRYLATE
       May cause respiratory irritation.
```

11.1.9. Specific target organ toxicity--repeated exposure (STOT-RE)

STOT-RE of substance/mixture as a whole : _____ Causes damage to organs through prolonged or repeated exposure . STOT-RE of individual components in pure state : _____ -> CASRN0086273-46-3: 2-(2-VINYLOXYETHOXY)ETHYL ACRYLATE Repeated dose(oral)....: 4.6 (brachydanio rerio)

- -> CASRN0057472-68-1: OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE no data available
- -> CASRN0001330-61-6: ISODECYL ACRYLATE no data available

11.1.10. Aspiration hazard

toxicity of substance/mixture as a whole : Based on available data, the classification criteria are not met. Classification procedure: Calculation method.



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11.1.11. Additional hazards

- Additional toxicity of individual components in pure state : -> CASRN0086273-46-3: 2-(2-VINYLOXYETHOXY)ETHYL ACRYLATE
 - no data available -> CASRN0057472-68-1: OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE
 - no data available -> CASRN0001330-61-6: ISODECYL ACRYLATE no data available
- 11.1.12. Information on symptoms and effects

```
Symptoms and effects of individual components in pure state :
-> CASRN0086273-46-3: 2-(2-VINYLOXYETHOXY)ETHYL ACRYLATE
      no data available
```

-> CASRN0057472-68-1: OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE no data available

```
-> CASRN0001330-61-6: ISODECYL ACRYLATE
     General effects.....: Dermatitis, To the best of our knowledge, the
                        chemical, physical, and toxicological properties have not
                        been thoroughly investigated. RTECS: AT2190000
     inhalation.....: May be harmful if inhaled. Causes respiratory tract
                       irritation.
     ingestion.....: May be harmful if swallowed.
     skin contact.....: May be harmful if absorbed through skin. Causes
                        skin irritation.
     eye contact..... May cause eye irritation.
RTECS..... AT2190000
```

12. AQUATIC TOXICITY

12.1. Toxicity

toxicity of individual components in pure state : _____ -> CASRN0086273-46-3: 2-(2-VINYLOXYETHOXY)ETHYL ACRYLATE LC50(fish)..... 6.8 mg/L/96h (brachydanio rerio) EC50(invertebrates).....: 55 mg/L/24 48h (daphnia) NOEC(fish)..... 2.2 mg/L (brachydanio rerio) T-: Norwegian -> CASRN0057472-68-1: OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE $\tt LC50(fish)....$ 4.64 mg/L/96h (leuciscus idus) EC50(invertebrates)....: 22.3mg/l/48h (daphnia) EC50(algae)..... 6.7mg/1/72h (algae) T-: presumumably not toxic for water organisms (EC50>=1); -> CASRN0001330-61-6: ISODECYL ACRYLATE EC50(invertebrates)....: >0.1g/l/daphnia T-: potentially toxic for water organisms (EC50<1); Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

persistence/degradability of substance/mixture as a whole : -----



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touloty duta	The product should be handled with the appropriate care and attention.
	BOD
12.3.	<pre>Bioaccumulative potential Bioaccumulation of substance/mixture as a whole :</pre>
12.4.	<pre>B-: not available Mobility in soil Mobility in soil of substance/mixture as a whole :</pre>



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-> CASRN0001330-61-6: ISODECYL ACRYLATE Mobility(soil): not available

- 12.5. Result of PBT and vPvB assessment
 - PBT.....: no assessment available
 - vPvB.....: no assessment available

12.6. Other adverse effects

12.7. Additional Information

PROVISIONAL CALCULATED GESAMP Hazard Profile of substance/mixture _____ NAME....: ARIGI UV K3 CYAN INK TRN....: EHS....: CAS....: RTECS...: Ala Alb Al Al Bl B2 Cl C2 C3 Dl D2 D3 E1 E2 E3 __ __ -- -- --_ _ _ _ ____ ___ _ _ _ _ ------(0) (0) (0) (0) (1) (2) (3) ST NI

GESAMP/EHS profiles of individual components

Legend: EHS=EHS Number (EHS=GESAMP Working Group on the Evaluation of the Hazards of Harmful Substances Carried by Ships) NRT=NetRegister Tonnage, Ala=Bioaccumulation log Pow, Alb=Bioaccumulation BCF, Al=Bioaccumulation, A2=Biodegradation, B1=Acute aquatic toxicity LC50/EC50/IC50 (mg/l), B2=Chronic aquatic toxicity NOEC (mg/l), C1=Acute mammalian oral toxicity LD50 (mg/kg), C2=Acute mammalian dermal toxicity LD50 (mg/kg), C3=Acute mammalian inhalation toxicity LC50 (mg/kg), D1=Skin irritation& corrosion, D2=Eye irritation& corrosion, D3=Long-term health effects, E1=Tainting, E2=Physical effects on wildlife & benthic habitats, E3=Interference with coastal amenities. The numerical scales start from 0 (no hazard), while higher numbers reflect increasing hazard. (GESAMP/EHS Composite List of Hazard Profiles - Hazard evaluation of substances transported by ships)

13. ADDITIONAL INFORMATION

13.1. Waste treatment methods

Waste should not be disposed of by release to sewers. According to local regulations, the disposal should be made through a licensed chemical waste disposal service. Effluent regulations / discharge/ treatment / contents may vary from one area to another. Please consult the local regulations regarding the disposal of this material. WASTE CODE:

EWC: 16 03 05

HAZARDOUS PROPERTIES OF WASTE:

H4 'Irritant': non-corrosive substances and preparations which, through immediate, prolonged or repeated contact with the skin or mucous membrane, can cause inflammation. H5 'Harmful': substances and preparations which, if they are inhaled or ingested or if they penetrate the skin, may involve limited health risks.

H6 'Toxic': substances and preparations (including very toxic substances and preparations) which, if they are inhaled or ingested or if they penetrate the skin, may involve serious, acute or chronic health risks and even death.

H13 'Sensitizing': substances and preparations which, if they are inhaled or if they penetrate the skin, are capable of eliciting a reaction of hypersensitization such that on further exposure to the substance or preparation, characteristic adverse effects are produced.

H14 'Ecotoxic': waste which presents or may present immediate or delayed risks for one or more sectors of the environment.

The data given is based on the current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product properties. Warning: contains machine translation.

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The product should be handled with the appropriate care and attention.

Additional contaminants present as a result of the use of the substance/mixture will need to be taken into account and assigned additional H-codes if applicable.

14. ADDITIONAL INFORMATION

		Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (IATA- DGR/ICAO-TI)
14.1.	UN-number				
14.2.	Proper shipping name	liquid, not dangerous for transport, MIXTURE			
14.3.	classes	()			
	Labelling Number				
14.4.	Packing group	-	-	-	-
14.5.	Environmental hazard	No	No		No

14.6. Special precautions for user

not available

14.7. Transport in bulk according to Annex II of MARPOL73/78 and IBC code

Transport in bulk not intended for this product.

14.8. Additional Information

14.8.1. Land transport (ADR/RID)

hazardide	entification	-
transport	category:	1
tunnelcod	le	
Quantity	limitation:	-
Excepted	Quantity Code (EQ):	-

14.8.2. Inland waterway transport (ADN)

14.8.3. Sea transport (IMDG)

EmS.....: marinepolutant....: segregation groups.....:

14.8.4. ICAO/IATA cargo aircraft transport

limited quantity CARGO.....:
packing instructions CARGO......

14.8.5. ICAO/IATA passenger and cargo aircraft limited Quantity PAX.....

packing instructions PAX.....:

14.8.6. ICAO/IATA Limited Quantity (LQ) passenger aircraft



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> Quantity limitation....: Packing Instructions (LQ)......:

14.8.7. UN "Model Regulation"

UN, liquid, not dangerous for transport, MIXTURE, -

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1. CAUTION: Substance/mixture not yet fully tested List of EU- and country-specific regulations for components -----CASRN:0057472-68-1; EC:EINECS260-754-3; INDEX: NAME :OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE CN IECSC 2013: oxybis(methyl-2,1-ethanediyl) diacrylate CASRN:0001330-61-6; EC:EC215-542-5; EINECS215-542-5; INDEX:607-133-00-9 NAME : ISODECYL ACRYLATE EC 60/2000 Water Policy (2009-06-05) - main pollunats: {5. PBT/zPzB/CMR} NL Prioritaire Stoffen-Lijst 2011: {6. gelijkwaardige zorgstoffen} CN IECSC 2013: isodecyl acrylate EC REACH (SVHC): Candidate List Substances of Very High Concern: Reason Inclusion: Equivalent level of concern having probable serious effects to human health (Article 57 f) Inclusion Date:19/12/2012 EC REACH (SVHC): Candidate List Substances of Very High Concern: Reason Inclusion: Equivalent level of concern having probable serious effects to human health (Article 57 f) Inclusion Date:19/12/2012 _____ CASRN:0002235-00-9; EC:EINECS218-787-6; INDEX: NAME :1-VINYLHEXAHYDRO-2H-AZEPIN-2-ONE CN IECSC 2013: 1-vinylhexahydro-2H-azepin-2-one CASRN:0075980-60-8; EC:278-355-8; INDEX:015-203-00-X NAME :DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE CN IECSC 2013: diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide CASRN:; EC:; INDEX: NAME :Multifunctional Acrylate EC 60/2000 Water Policy (2009-06-05) - main pollunats: {5. PBT/zPzB/CMR} NL Prioritaire Stoffen-Lijst 2011: {6. gelijkwaardige zorgstoffen} EC REACH (SVHC): Candidate List Substances of Very High Concern: Reason Inclusion: Equivalent level of concern having probable serious effects to human health (Article 57 f) Inclusion Date:19/12/2012 EC REACH (SVHC): Candidate List Substances of Very High Concern:



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Reason Inclusion: Equivalent level of concern having probable serious effects to human health (Article 57 f)

Inclusion Date:19/12/2012

CASRN:0162881-26-7; EC:423-340-5; INDEX:015-189-00-5 NAME :PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE

CN IECSC 2013: phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

List of EU- and country-specific regulations for Mixture/Substance DE 1999 Verwaltungsvorschrift wassergefährdende Stoffe (VwVwS/WGK) Water hazard classWGK: 2 - hazardous for waterWGK2 (calculation) EC 1999/13 volatile organic compounds (VOC-guideline) VOC: 67%

15.2. Chemical safety assessment

No chemical safety assessment (CSA) has been carried out for this substance/mixture by the supplier.

16. OTHER INFORMATION

16.1. Indication of changes

First Issuing date.....:2014-11-19 Revision Date.....:2014-11-19

16.2. Abbreviations and acronyms

ADN.....European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR.....European Agreement Concerning the International Carriage of Dangerous Goods by Road BCF.....bioconcentration factor CLP.....European Union system of classification, labelling and packaging chemical substances and mixtures. DNEL.....derived no effect level $\texttt{EMS} \dots \dots \texttt{EmS} \texttt{ code}$ GESAMP.....Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection GHS....GHS IBC.....Intermediate Bulk Container IDMG.....International Martime Dangerous Goods Code ICAO.....International Civil Aviation Organization IATA.....International Air Transport Association LOAEL.....lowest observed adverse effect level MARPOL.....International Convention for the Prevention of Pollution From Ships NOAEL.....No Observed Adverse Effect Level OPCW.....Organisation for the Prohibition of Chemical Weapons PNEC.....predicted no effect concentration REACH.....REACH RID.....International regulations carriage of dangerous goods by rail.TDG.....transport of dangerous good

16.3. Sources of key data used to compile the datasheet

Safety Data Sheet(s) from the supplier(s). Product GHS-classification from regulatory lists: regulations EC EC 1272/2008 (CLP00), EC 790/2009 & 758/2013 (ATP01), EU 286/2011



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(ATP02), EU 618/2012 (ATP03), EU 487/2013 (ATP04), EU 944/2013 (ATP05) & EU 605/2014 (ATP06).

From Transport classifications : ADR 2013, ADN 2013, RID 2013, IDMG 2004(and amendements), ICAO/IATA, CFR49, TDG. Directive 2008/68/EC From EC regulations: EC SVHC Substances of very high concern (2012/12/19) EC 33/1994 Protection of young people at work EC 62/1996 Air Quality Framework Directive EC 24/1998 CHEMICAL AGENTS AT WORK EC 13/1999 Limitation of emmissions (VOC) EC 60/2000 Water Policy (2009-06-05) EC 38/2000 EXPOSURE LIMITS (1stList) EC 648/2004 Detergent Regulation EC 111/2005 Drug Precursors EC 15/2006 EXPOSURE LIMITS (2ndList) EC 15/2000 EXPOSURE LIMITS (2ndlist) EC 161/2009 EXPOSURE LIMITS (3thList) EC 37/2004 EXPOSURE CARCINOGENES MUTAGENS EC 148/2009 EXPOSURE ASBESTOS EC 111/2005 Drug Precursor Regulation EC 1223/2009 COSMETICS EU 10/2011 FOOD Contact Regulations (amended 1282/2011) EC 1107/2009 Plant Protection Products (PPP) EC 528/2012 BIOCIDAL PRODUCTS REGULATION EC 552/2009 SUBSTANCE RESTRICTION LIST EU 276/2010 SUBSTANCE RESTRICTION (ACRYLAMIDE) EU 412/2012 SUBSTANCE RESTRICTION (DMF) EU 835/2012 SUBSTANCE RESTRICTION (CADMIUM) EU 836/2012 SUBSTANCE RESTRICTION (LEAD) EU 847/2012 SUBSTANCE RESTRICTION (MERCURY) EU 848/2012 SUBSTANCE RESTRICTION (PHENYLMERCURY) EC 649/2012 IMPORT/EXPORT HAZARDOUS CHEMICALS (PIC)(689/2008) EC 1272/2013 SUBSTANCE RESTRICTION (PAHs) UN JUN/2012 GESAMP/EHS Composite List From country-specific regulations: BE KB 2011.06.01 Grenswaarden CA OHS guideline 5.48-1 (2013-05-01) CA Ontario OHS-act RR01990 regulation 833 (2013-01-01) CA Quebec chapter S-2.1 (2013-07-01) DE TRGS-900 grenzwerten DE TRGS-910 Ausschuss für Gefahrstoffe 2012 DE TRGS-510 Lagerung von Gefahrstoffen 2010(LGK) DE 1999 Verwaltungsvorschrift wassergefährdende Stoffe (VwVwS/WGK) FR INRS ED 984 NL ARBO A&V/2007/38900 NL Staatscouranten Grenswaarden tot en met 2011 NL Waterbezwaarlijkheidscategorisatie (ABM) UK Control of Substances Hazardous to Health Regulations 2005 UK EH40/2005 Workplace exposure limits 2011 16.4. Classification for mixtures and used evaluation method according to regulation EC 1207/2008 (CLP) hazard [category]:Class Classification procedure * acute toxicity oral[Cat.4], H302 Calculation method. * skin corrosion or irritation[Cat.2], H315



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H317.....May cause an allergic skin reaction. H315....Causes skin irritation. H318....Causes serious eye damage.



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H319.....Causes serious eye irritation. H335.....May cause respiratory irritation. H411....Toxic to aquatic life with long lasting effects. H372.....Causes damage to organs through prolonged or repeated exposure . H361f....Suspected of damaging fertility. H413....May cause long lasting harmful effects to aquatic life. H412.....Harmful to aquatic life with long lasting effects. EUH208.....Contains . May produce an allergic reaction. EUH210......Safety data sheet available on request.

16.7. Training advice.

not available

16.8. Further Information.

The information disclosed in this Safety Datasheet is believed to be correct to the best of out 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.

<Exposure Scenario to be annexed to this SDS after REACH registration is completed > <End of Safety Data Sheet>