

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

ARIGI UV K3 YELLOW INK

Version 1.0 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).

A safety data sheet is not required for this product under Article 31 of REACH. This SDS has been created on a voluntary basis [to pass on relevant information required under Article 32]

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

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

1.1. Product identifier

Product Name: ARIGI UV K3 YELLOW 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

1.4. 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 [catego	ry]
3.1	:acute toxicity oral [Cat.4]	(H302)
3.2	:skin corrosion or irritation[Cat.2]	(H315)
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.

2.2. Label elements





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```
GHS07.....exclamation mark
GHS05.....corrosion
GHS08.....health hazard
 .....Danger
H302.....Harmful if swallowed.
H315.....Causes skin irritation.
H317..... May cause an allergic skin reaction.
H318.....Causes serious eye damage.
H361.....Suspected of damaging fertility or the unborn child .
H372......Causes damage to organs through prolonged or repeated exposure.
H412......Harmful to aquatic life with long lasting effects.
EUH208......Contains. May produce an allergic reaction.
EUH210.....Safety data sheet available on request.
P201......Obtain special instructions before use.
P202......Do not handle until all safety precautions have been read and understood.
P260................Do not breathe dust/fume/gas/mist/vapours/spray.
P261......Avoid breathing dust/fume/gas/mist/vapours/spray.
P264...... Wash ... thoroughly after handling.
P270............Do 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:000000000000
                                          REACHID: [CONFIDENTIAL]
                            INDEX:
      GHS-pictogram....: GHS07
       GHS-signalword....: Warning
       GHS-hazard....: H302 H317
       GHS-classes....:
       GHS Acute Toxicity (Estimate) Mammalian - LD50/LC50
         oral....: 0 mg/kg
         dermal....: 0
                                 mg/kg
         inhalation....: 0
         gases....: 0
         mist/dust....: 0
       GHS Aquatic Toxicity(Estimate) - LC50/EC50/ErC50
         acute....: 0
                                 mq/1
         chronic....: 0
                                 mq/1
         acute M-factor....: 0
         chronic M-factor....: 0
```



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```
Water hazard class(WGK)..... 1
        GHS unknown oral toxicity....: false
        GHS unknown dermal toxicity....: false
        GHS unknown inhalation toxicity....: false
        GHS Non-Additivity..... false
5- 10% : OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE
CASRN:0057472-68-1 EC:EINECS260-754-3 INDEX:
                                                REACHID: 01-2119484629-21
        GHS-pictogram.....: GHS05 GHS07
        GHS-signalword.....: Danger
        GHS-hazard..... H315 H318 H317
        GHS-classes....:
        GHS Acute Toxicity (Estimate) Mammalian - LD50/LC50
          oral....: 0 mg/kg
          \texttt{dermal....:} 0
          \verb|inhalation....: 0|
                                      mq/1
          gases....: 0
          mist/dust....: 0
        GHS Aquatic Toxicity(Estimate) - LC50/EC50/ErC50
          acute....: 0
                                      mq/1
          chronic....: 0
          acute M-factor....: 0
          chronic M-factor....: 0
        Water hazard class(WGK)..... 2
        GHS unknown oral toxicity....: false
        GHS unknown dermal toxicity....: false
        GHS unknown inhalation toxicity....: false
        GHS Non-Additivity..... false
10- 20% : ISODECYL ACRYLATE
CASRN:0001330-61-6 EC:EC215-542-5;EINECS215-542-5INDEX:607-133-00-9 REACHID:01-2119964031-47
        GHS-pictogram.....: GHS07 GHS09
        GHS-signalword....: Warning
        GHS-hazard.....: H319 H315 H335 H411
        GHS-classes....:
        GHS Acute Toxicity (Estimate) Mammalian - LD50/LC50
          oral....: 0 mg/kg
          dermal....: 0
                                      mg/kg
          inhalation....: 0
          gases....: 0
          mist/dust....: 0
        GHS Aquatic Toxicity(Estimate) - LC50/EC50/ErC50
          acute....: 0
          chronic....: 0
          acute M-factor....: 0
          chronic M-factor....: 0
        Water hazard class(WGK)..... 2
        GHS unknown oral toxicity....: false
        GHS unknown dermal toxicity....: false
        GHS unknown inhalation toxicity....: false
        GHS Non-Additivity..... false
10- 20%: 1-VINYLHEXAHYDRO-2H-AZEPIN-2-ONE
CASRN:0002235-00-9 EC:EINECS218-787-6 INDEX:
                                                REACHID: 01-2119977109-27
        GHS-pictogram.....: GHS07 GHS08
        GHS-signalword....: Danger
        GHS-hazard.....: H302 H319 H317 H372
        GHS-classes....:
```



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```
GHS Acute Toxicity (Estimate) Mammalian - LD50/LC50
         oral....: 0 mg/kg
         dermal....: 0
         inhalation....: 0
         gases....: 0
         mist/dust..... 0
       GHS Aquatic Toxicity(Estimate) - LC50/EC50/ErC50
         acute....: 0
         chronic....: 0
                                  mq/1
         acute M-factor....: 0
         chronic M-factor....: 0
       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....: 0
                                  mg/kg
         dermal....: 0
                                  mg/kg
         inhalation....: 0
         gases....: 0
         mist/dust....: 0
       GHS Aquatic Toxicity(Estimate) - LC50/EC50/ErC50
         acute....: 0
         chronic....: 0
         acute M-factor....: 0
         chronic M-factor....: 0
       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
         gases....: 0
         mist/dust....: 0
                                   mq/1
       GHS Aquatic Toxicity(Estimate) - LC50/EC50/ErC50
         acute....: 0
         chronic....: 0
         acute M-factor....: 0
         chronic M-factor....: 0
```



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```
Water hazard class(WGK)..... 0
        GHS unknown oral toxicity....: false
        GHS unknown dermal toxicity....: false
        GHS unknown inhalation toxicity....: false
        GHS Non-Additivity..... false
1- 5% : PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE
CASRN:0162881-26-7 EC:423-340-5
                                  INDEX:015-189-00-5 REACHID:01-2119489401-38
        GHS-pictogram....: GHS07
        GHS-signalword....: Warning
        GHS-hazard....: H317 H413
        GHS-classes....:
        GHS Acute Toxicity (Estimate) Mammalian - LD50/LC50
           oral....: 0 mg/kg
           \texttt{dermal}....: 0
           \verb|inhalation....: 0|
           gases....: 0
           mist/dust....: 0
        GHS Aquatic Toxicity(Estimate) - LC50/EC50/ErC50
                                         mg/1
           acute....: 0
           chronic....: 0
           acute M-factor....: 0
           chronic M-factor....: 0
        Water hazard class(WGK)....: 1
        GHS unknown oral toxicity....: false
        GHS unknown dermal toxicity....: false
        GHS unknown inhalation toxicity....: false
        GHS Non-Additivity..... false
 % : components with unknown toxicity
Hazardous components in the meaning of regulation (EC) No 1272/2008 (CLP)
______
40-60% : 2-(2-VINYLOXYETHOXY) ETHYL ACRYLATE
CASRN:0086273-46-3 EC:000000000000
   symbols&Risks : XN;R22-R43
5-10% : OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE
CASRN:0057472-68-1 EC:EINECS260-754-3
                : XI;R38-R41-R43
   svmbols&Risks
10-20% : ISODECYL ACRYLATE
CASRN:0001330-61-6 EC:EC215-542-5; EINECS215-542-5INDEX:607-133-00-9
                 : N-XI;R36/37/38-R51/53
   svmbols&Risks
10-20%: 1-VINYLHEXAHYDRO-2H-AZEPIN-2-ONE
CASRN:0002235-00-9 EC:EINECS218-787-6
                : T;R22-R36-R43-R48/23
   symbols&Risks
1-5% : DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE
CASRN:0075980-60-8 EC:278-355-8
                                  INDEX:015-203-00-X
   symbols&Risks
                : XN;R62
5-10% : Multifunctional Acrylate
1-5%: PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE
CASRN:0162881-26-7 EC:423-340-5
                                  INDEX:015-189-00-5
   svmbols&Risks
                : XI;R43-R53
```

4. FOLLOWING EYE CONTACT

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4.1. Description of first aid measures

4.1.1. General notes

General Advice:

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

Rinse mouth. Only induce vomiting at the instruction of medical personnel. Seek medical advice.

4.1.6. Self-protection of the first aider

not available

4.2. Most important symptoms and effects, both acute and delayed

not available

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor: In case of shortness of breath, give oxygen. Keep victim warm.

5. SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS

5.1. Extinguishing media

Powder, foam, carbon dioxide (CO2)

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing. Keep away from heat or open flame.

5.4. Additional Information

Collect contaminated fire extinguishing water separately.

6. FOR CLEANING UP

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Eye-rinsing bottle with pure water. Close-fitting safety

goggles. Wear impermeable gloves.

Emergency procedures: Mark off the place of the accident for other road users. The 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 equipment: not available

6.2. Environmental precautions

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.

6.4. Reference to other sections

See section 14 for available ${\tt EmS-code}$ (IMDG).

See section 13 for waste disposal.

6.5. Additional Information

not available

7. HANDLING

7.1. Precautions for safe handling

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

3.1. Control parameters

8.1.1. Occupational exposure limits

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

.....

-> CASRN0162881-26-7: PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE

DNEL, workers:

inhalation(systemic)....: 7.8 mg/m3

List of predicted no effect concentrations (PNEC)

not available

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. Personal protective equipment

Eye / Face protection Safety glasses or face screen Skin protection Wear suitable protective clothing.

(thickness >= 0.38 mm, breakthrough time > 480 min) or neoprene (thickness >= 0.65 mm, breakthrough time > 240 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 Under normal conditions of use, thermal protection not

required.

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 : yellow

Odour: characteristic Odour threshold: not available

9.1.2. Safety relevant basic data

pH (25°C) not available



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> Melting/Freezing point (°C): not available Boiling point/range (°C): 121 (estimate) Flash Point (°C): 106 (estimate)

Evaporation rate: not available Flammability (solids, gas): not available

Upper/lower flammability or explosive limits : not available Vapour Pressure, Pa at °C: 23 (estimate)

Relative Density: not available

Solubility in water and solvents (mg/l) : not available

Partition coefficient: n-octanol/water : not available Auto-ignition temperature (°C): not available Decomposition temperature (°C): not available Viscosity (at 20°C): not available Explosive properties: not applicable Oxidising properties: not available

Combustibility BZ/R: not available Combustibility BZ/100: not available

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

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**

toxicity of substance/mixture as a whole : _____ Harmful if swallowed. Classification procedure: Calculation method. ATEmix(oral)....: 0 mg/kg



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11.1.2. Skin corrosion/irritation

Skin corrosion/irritation of substance/mixture as a whole :

Causes skin irritation.

Classification procedure: Expert judgement and weight of evidence determination.

Skin corrosion/irritation of individual components in pure state:

-> CASRN0057472-68-1: OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE

Causes skin irritation.

-> CASRN0001330-61-6: ISODECYL ACRYLATE

Causes skin irritation.

: Multifunctional Acrylate

Causes skin irritation.

11.1.3. Serious eye damage/irritation

Eye damage/irritation of substance/mixture as a whole :

Causes serious eye damage.

Classification procedure: Expert judgement and weight of evidence determination.

Eye damage/irritation of individual components in pure state :

-> CASRN0057472-68-1: OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE

Causes serious eye damage.

-> CASRN0001330-61-6: ISODECYL ACRYLATE

Causes serious eye irritation.

-> CASRN0002235-00-9: 1-VINYLHEXAHYDRO-2H-AZEPIN-2-ONE

Causes serious eye irritation.

: Multifunctional Acrylate

Causes serious eye irritation.

11.1.4. Respiratory or skin sensitization

 ${\tt Respiratory/skin \ sensitization \ of \ substance/mixture \ as \ a \ whole \ :}$

May cause an allergic skin reaction.

Classification procedure: Calculation method.

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.
        {\tt Mutagenicity} \ {\tt of} \ {\tt individual} \ {\tt components} \ {\tt in} \ {\tt pure} \ {\tt state} \ \vdots
        -> 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
```

-> CASRN0162881-26-7: PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE

no data available

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

-> CASRN0162881-26-7: PHENYL BIS(2,4,6-TRIMETHYLBENZOYL)-PHOSPHINE OXIDE

11.1.8. Specific target organ toxicity-single exposure (STOT-SE)

no data available

no data available

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

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
```

11.1.12. Information on symptoms and effects

RTECS....: AT2190000

skin irritation.
eye contact.....: May cause eye irritation.

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
     LC50(fish)..... 4.64 mg/L/96h (leuciscus idus)
     EC50(invertebrates).....: 22.3mg/1/48h (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



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```
BOD....: not available
COD....: not available
T-1/2(sea water)..... not available
T-1/2(fresh-water)..... not available
T-1/2(sea sediment)..... not available
T-1/2(freshwater sediment)....: not available
T-1/2(soil)..... not available
T-1/2(air)....: not available
bio-degradation....: not available
Evaluation procedure persistence/degradability: Calculation method.
persistence/degradability assessment: not available
persistence/degradability of individual components in pure state :
-> CASRN0086273-46-3: 2-(2-VINYLOXYETHOXY)ETHYL ACRYLATE
    Biodegradation(water).....: >80%28d, readily degradable
-> CASRN0057472-68-1: OXYBIS(METHYL-2,1-ETHANEDIYL) DIACRYLATE
    Biodegradation(water)....: 100%28days (OECD301E)
-> CASRN0001330-61-6: ISODECYL ACRYLATE
    P-: not available
```

12.3. Bioaccumulative potential

12.4. Mobility in soil

AGFA 🐠

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

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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

not available

12.7. Additional Information

PROVISIONAL CALCULATED GESAMP Hazard Profile of substance/mixture

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.

 ${
m H}14$ 'Ecotoxic': waste which presents or may present immediate or delayed risks for one or more sectors of the environment.



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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	liquid, not dangerous for transport, MIXTURE	liquid, not dangerous for transport, MIXTURE	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
	opecial precautions for user
14.7.	Transport in bulk according to Annex II of MARPOL73/78 and IBC code Cransport in bulk not intended for this product.
	Additional Information
14.0	1. Land transport (ADR/RID) hazardidentification
	transportcategory: 1
	tunnelcode:
	Quantity limitation Excepted Quantity Code (EQ)
	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

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

```
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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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

ADNEuropean Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADREuropean Agreement Concerning the International Carriage of Dangerous Goods by
Road
BCFbioconcentration factor
CLP European Union system of classification, labelling and packaging chemical
substances and mixtures.
DNELderived no effect level
EMSEmS code
GESAMPJoint Group of Experts on the Scientific Aspects of Marine Environmental
Protection
GHSGHS
IBCIntermediate Bulk Container
IDMGInternational Martime Dangerous Goods Code
ICAOInternational Civil Aviation Organization
IATAInternational Air Transport Association
LOAELlowest observed adverse effect level
MARPOLInternational Convention for the Prevention of Pollution From Ships
NOAELNo Observed Adverse Effect Level
OPCWOrganisation for the Prohibition of Chemical Weapons
PNECpredicted no effect concentration
REACHREACH
RIDInternational regulations carriage of dangerous goods by

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

rail.TDG.....transport of dangerous good



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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 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 RRO1990 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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16.5.

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Expert judgement and weight of evidence determination. * skin sensitisation[Cat.1], H317 Expert judgement and weight of evidence determination. * eye damage or irritation[Cat.1], H318 Expert judgement and weight of evidence determination. * reproductive toxicity[Cat.2], H361 Expert judgement and weight of evidence determination. * stot repeated exposure[Cat.1], H372 Expert judgement and weight of evidence determination. * chronic aquatic hazard[Cat.3], H412 Calculation method. * eye damage or irritation[Cat.2], H319 Expert judgement and weight of evidence determination. * stot single exposure[Cat.3_respiratory_irritation], H335 Expert judgement and weight of evidence determination. * chronic aquatic hazard[Cat.2], H411 Calculation method. * reproductive toxicity[Cat.2], H361F Expert judgement and weight of evidence determination. * chronic aquatic hazard[Cat.4], H413 Calculation method. * chronic aquatic hazard[Cat.1], H410 Calculation method. * germ cell mutagenicity[Cat.2], H341 Expert judgement and weight of evidence determination. Full text of R-phrases mentioned in sections 2 to 15. XN.....Harmful R22.....Harmful if swallowed R43..... May cause sensitisation by skin contact XI.....Irritant R38.....Irritating to skin R41.....Risk of serious damage to eyes R43..... May cause sensitisation by skin contact ${\tt N}.\dots...{\tt Dangerous}$ for the environment XI.....Irritant R36/37/38....Irritating to eyes, respiratory system and skin R51/53......Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment T.....Toxic R22.....Harmful if swallowed R36.....Irritating to eyes R43..... May cause sensitisation by skin contact R48/23......Toxic danger of serious damage to health by prolonged exposure through inhalation XN.....Harmful R62.....Possible risk of impaired fertility XI.....Irritant R36/38.....Irritating to eyes and skin R43..... May cause sensitisation by skin contact $\ensuremath{\text{R43.....}}$ May cause sensitisation by skin contact R53......May cause long-term adverse effects in the aquatic environment Full text of H-phrases mentioned in sections 2 to 15. H302.....Harmful if swallowed. H317..... May cause an allergic skin reaction. H315.....Causes skin irritation.

H318.....Causes serious eye damage.



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H319Causes serious eye irritation.
H335May cause respiratory irritation.
H411Toxic to aquatic life with long lasting effects.
H372Causes damage to organs through prolonged or repeated exposure
H361fSuspected of damaging fertility.
H413May cause long lasting harmful effects to aquatic life.
H412Harmful to aquatic life with long lasting effects.
EUH208Contains . May produce an allergic reaction.
EUH210Safety 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>