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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name: INKU-US-1000-WH

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Printing ink

**Uses advised against:** Reserved for industrial and professional use.

UFI: 5710-706H-A00X-3WEQ

#### 1.3 Details of the supplier of the safety data sheet

Roland DG EMEA NV Bell-Telephonelaan 2G

B-2440 Geel Belgien

Telefon-Nr.+32 14575911

EMAIL: deu-demand-planning@rolanddg.com

**National Supplier** 

ROLAND DG (UK) Ltd. Griffin House, Windmill

Road Clevedon, North Somerset

BS21 6UJ

Phone: +44 1275 335540

EMAIL: deu-demand-planning@rolanddg.com

#### 1.4 Emergency telephone number:

+35318092566 (National Poisons Information Centre Ireland), 999 and 112 is the national emergency response service in the UK

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

#### Classification according to Regulation (EC) No 1272/2008 as amended.

#### **Health Hazards**

Skin irritation	Category 2	H315: Causes skin irritation.
Serious eye damage	Category 1	H318: Causes serious eye damage.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.
Toxic to reproduction	Category 2	H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
Specific Target Organ Toxicity - Repeated Exposure	Category 1 (Liver, Respiratory system)	H372: Causes damage to organs through prolonged or repeated exposure.

#### **Environmental Hazards**

Chronic hazards to the aquatic Category 2 H411: Toxic to aquatic life with long lasting environment effects.

#### 2.2 Label Elements

Contains: 2-Phenoxyethyl acrylate

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1-Vinylhexahydro-2H-azepin-2-one Oxybis(methyl-2,1-ethanediyl) diacrylate

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

2-phenoxyethyl prop-2-enoate

2-[[(Butylamino)carbonyl]oxy]ethyl acrylate



Signal Word: Danger

Hazard Statement(s): H315: Causes skin irritation.

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

H361fd: Suspected of damaging fertility. Suspected of damaging the

unborn child.

H372: Causes damage to organs through prolonged or repeated

exposure.

H411: Toxic to aquatic life with long lasting effects.

#### **Precautionary Statements**

**Prevention:** P201: Obtain special instructions before use.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

**Response:** P333+P313: If skin irritation or rash occurs: Get medical

advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310: Immediately call a POISON CENTER or doctor/ physician.

2.3 Other hazards Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling

vPvB (very persistent/very bioaccummulative) criteria

**Endocrine Disruption-Toxicity** 

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Endocrine Disruption-Ecotoxicity** 

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

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Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
2- Phenoxyethyl acrylate	25 - <50%	48145-04-6	256-360-6	01- 2119980532- 35-XXXX;	No data available.	
1- Vinylhexahydr o-2H-azepin- 2-one	10 - <20%	2235-00-9	218-787-6	01- 2119977109- 27-XXXX;	No data available.	
Oxybis(methyl -2,1- ethanediyl) diacrylate	10 - <20%	57472-68-1	260-754-3	01- 2119484629- 21-XXXX;	No data available.	
Diphenyl(2,4,6 - trimethylbenzo yl)phosphine oxide	3 - <5%	75980-60-8	278-355-8	01- 2119972295- 29-XXXX;	No data available.	
2- phenoxyethyl prop-2-enoate	2.5 - <5%	56641-05-5	500-133-9	No data available.	No data available.	
2- phenoxyethan ol	1 - <5%	122-99-6	204-589-7	01- 2119488943- 21-XXXX;	No data available.	
2- [[(Butylamino) carbonyl]oxy]e thyl acrylate	1 - <2.5%	63225-53-6	264-036-0	No data available.	No data available.	
2-Hydroxy-2- methylpropiop henone	1 - <5%	7473-98-5	231-272-0	01- 2119472306- 39-XXXX;	No data available.	
Oligo[2- hydroxy-2- methyl-1-[4-(1- methylvinyl)ph enyl]propanon e	0.1 - <1%	163702-01-0	402-990-3	01- 0000015270- 82-0000;	No data available.	
2,4,6- trimethylbenzo phenone	0.1 - <0.25%	954-16-5	403-150-9	No data available.	No data available.	
2,6-di-tert- Butyl-p-cresol	0.1 - <0.25%	128-37-0	204-881-4	01- 2119555270- 46-0000;	Aquatic Toxicity (Acute): 1; Aquatic Toxicity	#

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		(Chronic): 1	

#### Classification

Chemical name	Classification	Notes
2-Phenoxyethyl acrylate	Classification: Skin Sens.: 1A: H317; Repr.: 2: H361d; Aquatic	No data
	Chronic: 2: H411;	available.
1-Vinylhexahydro-2H-	Classification: Acute Tox.: 4: H302; Eye Irrit.: 2A: H319; Skin	No data
azepin-2-one	Sens.: 1B: H317; STOT RE: 1: H372; Acute Tox.: 4: H312;	available.
	Acute toxicity, oral: LD 50: 1,732 mg/kg	
	Acute toxicity, dermal: LD 50: 1,700 mg/kg	
Oxybis(methyl-2,1-	Classification: Skin Sens.: 1: H317; Eye Dam.: 1: H318; Skin	No data
ethanediyl) diacrylate	Irrit.: 2: H315;	available.
Diphenyl(2,4,6-	Classification: Repr.: 2: H361f; Skin Sens.: 1: H317; Aquatic	No data
trimethylbenzoyl)phosphin	Chronic: 2: H411;	available.
e oxide		
2-phenoxyethyl prop-2-	Classification: Skin Sens.: 1: H317; Aquatic Chronic: 2: H411;	No data
enoate	Observing the Fig. 1976 O. 1940 As to To. 14 1900	available.
2-phenoxyethanol	Classification: Eye Irrit.: 2: H319; Acute Tox.: 4: H302;	No data
	Aguta taxiaity, arall ID FO: 1.950 mg/kg	available.
	Acute toxicity, oral: LD 50: 1,850 mg/kg Acute toxicity, inhalation: LC 50: > 1,000 mg/m3	
	Acute toxicity, illinatation: LC 50. > 1,000 flights Acute toxicity, dermal: LD 50: > 2,214 mg/kg	
2-	Classification: Acute Tox.: 4: H332; Skin Sens.: 1: H317;	No data
[[(Butylamino)carbonyl]oxy	Aquatic Chronic: 2: H411;	available.
lethyl acrylate	7.444.10 01110110. 2. 11411,	available.
joury, dory, ato	Acute toxicity, inhalation: LC50: 1 - 5 mg/l	
2-Hydroxy-2-	Classification: Acute Tox.: 4: H302; Aquatic Chronic: 3: H412;	No data
methylpropiophenone	, , , , , , , , , , , , , , , , , , , ,	available.
,	Acute toxicity, oral: LD 50: 1,694 mg/kg	
	Acute toxicity, dermal: LD 50: 6,929 mg/kg	
Oligo[2-hydroxy-2-methyl-	Classification: Repr.: 2: H361f;	No data
1-[4-(1-		available.
methylvinyl)phenyl]propan		
one		
2,4,6-	Classification: Acute Tox.: 4: H302; Eye Irrit.: 2: H319; Aquatic	No data
trimethylbenzophenone	Acute: 1: H400; Aquatic Chronic: 1: H410;	available.
2.6 di tort Putul p orosal	Classification: Aquatic Acute: 1: H400; Aquatic Chronic: 1:	No data
2,6-di-tert-Butyl-p-cresol	· · · · ·	available.
	H410;	avallable.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

#### **SECTION 4: First aid measures**

**General:** Get medical attention if symptoms occur.

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

<sup>#</sup> This substance has workplace exposure limit(s).

<sup>##</sup> This substance is listed as SVHC.

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4.1 Description of first aid measures

**Inhalation:** Move to fresh air.

**Skin Contact:** Get medical attention. Destroy or thoroughly clean contaminated shoes.

Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction

develops, get medical attention.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Call a physician or poison control center

immediately.

**Ingestion:** Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Personal Protection for First-aid Responders:

CAUTION! First aid personnel must be aware of own risk during rescue!

See Section 8 of the SDS for Personal Protective Equipment.

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

See section 11 of the SDS for additional information on health hazards.

4.3 Indication of any immediate medical attention and special treatment needed

**Hazards:** See section 11 of the SDS for additional information on health hazards.

**Treatment:** Treat symptomatically.

#### **SECTION 5: Firefighting measures**

**General Fire Hazards:** No unusual fire or explosion hazards noted.

5.1 Extinguishing media

Suitable extinguishing media:

Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media:

5.2 Special hazards arising from the substance or

mixture:

Do not use water jet as an extinguisher, as this will spread the fire.

mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters Special fire fighting

procedures:

No data available.

**Special protective** 

equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures:

See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Keep unauthorized personnel away.

6.1.1 For non-emergency

personnel:

Use personal protective equipment.

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6.1.2 For emergency responders:

Warn everybody of potential hazards and evacuate if necessary. Use personal protective equipment.

6.2 Environmental Precautions:

Avoid release to the environment. Prevent entry into waterways, sewer, basements or confined areas. Contact local authorities in case of spillage to drain/aquatic environment. Do not contaminate water sources or sewer.

6.3 Methods and material for containment and cleaning up:

Prevent further leakage or spillage if safe to do so. Stop the flow of material, if this is without risk. Small Spillages: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Clean surface thoroughly to remove residual contamination. Large Spillages: Dike far ahead of larger spill for later recovery and disposal.

6.4 Reference to other sections:

See Section 8 of the SDS for Personal Protective Equipment. For waste

disposal, see section 13 of the SDS.

#### SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Do not get in eyes. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with skin. Avoid contact with eyes, skin, and clothing.

7.2 Conditions for safe storage, including any incompatibilities:

Store locked up.

7.3 Specific end use(s):

Reserved for industrial and professional use.

#### **SECTION 8: Exposure controls/personal protection**

#### **8.1 Control Parameters**

**Occupational Exposure Limits** 

Chemical name	Туре	Exposure Limit Values	Source
2,6-di-tert-Butyl-p-c	resol TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

#### **Biological Limit Values**

None of the components have assigned exposure limits.

#### **DNEL-Values**

Critical component	Туре	Route of Exposure	Health Warnings	Remarks
2-Phenoxyethyl acrylate	Workers	Inhalation	Local, long-term; 77 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 12 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
	General population	Eyes	Local effect;	No hazard identified
	Workers	Dermal	Systemic, long-term; 3.5 mg/kg	Repeated dose toxicity
1-Vinylhexahydro-2H-azepin-2- one	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
Oxybis(methyl-2,1-ethanediyl) diacrylate	Workers	Inhalation	Systemic, long-term; 24.48 mg/m3	Repeated dose toxicity

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	General population	Inhalation	Systemic, long-term;	Repeated dose toxicity
	\\\ - =	F	7.24 mg/m3	Nie dete en 21ekte
	Workers	Eyes	Local effect; Local effect;	No data available No data available
	General population Workers	Eyes Dermal	Systemic, long-term;	Repeated dose toxicity
			2.77 mg/kg	
	General population	Oral	Systemic, long-term; 2.08 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 1.66 mg/kg	Repeated dose toxicity
Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	Workers	Eyes	Local effect;	No hazard identified
	General population	Eyes	Local effect;	No data available
	Workers	Dermal	Systemic, long-term; 0.233 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 0.822 mg/m3	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	General population	Dermal	Systemic, long-term;	Repeated dose toxicity
	Contra population	20111.01	83.3 µg/kg	
	General population	Oral	Systemic, long-term; 83.3 µg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 0.145 mg/m3	Repeated dose toxicity
2-phenoxyethyl prop-2-enoate	General population	Eyes	Local effect;	No hazard identified
,yy. p.op = 0oa.o	Workers	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Local, long-term; 97 mg/m3	Repeated dose toxicity
	Workers	Inhalation		Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 3.5 mg/kg	Repeated dose toxicity
2-phenoxyethanol	General population	Inhalation	Systemic, long-term; 2.41 mg/m3	Repeated dose toxicity
	General population	Inhalation	Local, long-term; 2.41 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Local, long-term; 5.7 mg/m3	
	General population	Dermal	Systemic, long-term; 10.42 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, short-term; 9.23 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 9.23 mg/kg	Repeated dose toxicity
	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
	General population	Eyes	Local effect;	Low hazard (no threshold derived)
	Workers	Inhalation	Systemic, long-term; 5.7 mg/m3	· · · · · · · · · · · · · · · · · · ·
	Workers	Dermal	Systemic, long-term; 20.83 mg/kg	Repeated dose toxicity
2- [[(Butylamino)carbonyl]oxy]ethyl acrylate	General population	Eyes	Local effect;	No hazard identified
acrylate	Workers	Inhalation	Systemic, long-term; 9.9 mg/m3	Repeated dose toxicity
l	<del></del>	Inhalation	Systemic, long-term; 1.7	Repeated dose toxicity
	General population	IIIIIaialioii	ma/m3	
			mg/m3	No hazard identified
	Workers Workers	Eyes Dermal	Local effect; Systemic, long-term; 2	No hazard identified Repeated dose toxicity
	Workers	Eyes	Local effect; Systemic, long-term; 2 mg/kg Systemic, long-term; 1	
	Workers Workers	Eyes Dermal	Local effect; Systemic, long-term; 2 mg/kg Systemic, long-term; 1 mg/kg Systemic, long-term; 1	Repeated dose toxicity
2-Hydroxy-2- methylpropiophenone	Workers Workers General population	Eyes Dermal Oral	Local effect; Systemic, long-term; 2 mg/kg Systemic, long-term; 1 mg/kg	Repeated dose toxicity  Repeated dose toxicity  Repeated dose toxicity

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	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	No hazard identified
	Workers	Dermal	Systemic, long-term; 1 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.4 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.5 mg/kg	Repeated dose toxicity
Oligo[2-hydroxy-2-methyl-1-[4- (1- methylvinyl)phenyl]propanone	Workers	Inhalation	Systemic, long-term; 1.175 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
	General population	Eyes	Local effect;	No hazard identified
	General population	Inhalation	Systemic, long-term; 0.29 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.167 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.167 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 0.33 mg/kg	Repeated dose toxicity
2,6-di-tert-Butyl-p-cresol	Workers	Eyes	Local effect;	No hazard identified
	General population	Inhalation	Systemic, long-term; 0.86 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 3.5 mg/m3	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	Workers	Dermal	Systemic, long-term; 0.5 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.25 mg/kg	Repeated dose toxicity

#### **PNEC-Values**

Critical component	Environmental compartment	PNEC-Values	Remarks
2-Phenoxyethyl acrylate	Sewage treatment plant	1.77 mg/l	-
2 i Herioxyetriyi deryidte	Aquatic (marine water)	0.2 μg/l	
	Aquatic (freshwater)	2 μg/l	
	Marine sediments	0.002 mg/kg	
	freshwater sediment	0.002 mg/kg	
Oxybis(methyl-2,1-ethanediyl) diacrylate	soil	0.001 mg/kg	
•	Aquatic (freshwater)	0.003 mg/l	
	Sewage treatment plant	100 mg/l	
	Aguatic (marine water)	0 mg/l	
	freshwater sediment	0.009 mg/kg	
Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	soil	22.2 μg/kg	
	Fresh water	0.00353 mg/l	
	Marine sediments	11.5 μg/kg	
	Marine water	0.00353 mg/l	
	Aquatic (freshwater)	1.4 µg/l	
	Intermittent release	0.0353 mg/l	
	Aquatic (marine water)	0.14 μg/l	
	Sediment-fresh water	0.29 mg/kg	
	freshwater sediment	0.115 mg/kg	
	Soil	0.0557 mg/kg	
2-phenoxyethyl prop-2-enoate	Aquatic (freshwater)	2 μg/l	
	soil	0.009 mg/kg	
	Aquatic (marine water)	0.2 μg/l	
	freshwater sediment	0.053 mg/kg	
	Sewage treatment plant	1.77 mg/l	
	Marine sediments	0.005 mg/kg	
2-phenoxyethanol	Sewage treatment plant	36 mg/l	
	soil	1.31 mg/kg	
	Marine sediments	0.724 mg/kg	
	freshwater sediment	7.237 mg/kg	
	Aquatic (freshwater)	0.943 mg/l	

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	Aquatic (marine water)	0.094 mg/l	
2-	soil	0.003 mg/kg	
[[(Butylamino)carbonyl]oxy]ethyl			
acrylate			
	Sewage treatment plant	3.54 mg/l	
	Aquatic (freshwater)	0.003 mg/l	
	freshwater sediment	0.024 mg/kg	
	Marine sediments	0.002 mg/kg	
	Aquatic (marine water)	0 mg/l	
2-Hydroxy-2-	soil	0.001 mg/kg	
methylpropiophenone			
	Aquatic (marine water)	0 mg/l	
	Aquatic (freshwater)	0.002 mg/l	
	Sewage treatment plant	45 mg/l	
	Marine sediments	0.001 mg/kg	
	freshwater sediment	0.009 mg/kg	
Oligo[2-hydroxy-2-methyl-1-[4-	Aquatic (freshwater)	0.003 mg/l	
(1-			
methylvinyl)phenyl]propanone			
	soil	0.093 mg/kg	
	Sewage treatment plant	0.16 mg/l	
	Marine sediments	0.012 mg/kg	
	Aquatic (marine water)	0 mg/l	
	freshwater sediment	0.117 mg/kg	
2,6-di-tert-Butyl-p-cresol	Predator	8.33 mg/kg	Oral
	freshwater sediment	99.6 μg/kg	
	soil	47.69 μg/kg	
	Aquatic (freshwater)	0.199 μg/l	
	Sewage treatment plant	0.17 mg/l	
	Aquatic (marine water)	0.02 μg/l	
	Marine sediments	9.96 µg/kg	

# 8.2 Exposure controls Appropriate Engineering Controls:

Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**General information:** Follow training instructions when handling this material. Use personal

protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier

of the personal protective equipment.

**Eye/face protection:** Safety goggles. EN 166.

**Hand Protection:** Protective gloves should be used if there is a risk of direct contact or

splash.(EN374), Chemical resistant gloves required for prolonged or repeated contact., Butyl rubber (EN374), Glove thickness: > 0.70 mm, Break-through time: > 480 min, Glove thickness: > 0.35 mm, Break-through

time: > 60 min, Risk of splashes:, Nitrile rubber., Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable., The most suitable glove must be chosen in

consultation with the gloves supplier, who can inform about the

breakthrough time of the glove material.

**Skin and Body Protection:** Safety clothes : long sleeved clothing EN13688

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Respiratory Protection: In case of inadequate ventilation use suitable respirator (EN14387). Seek

advice from local supervisor.

**Hygiene measures:** Do not get in eyes. Observe good industrial hygiene practices. Do not

handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed

out of the workplace.

**Environmental Controls:** Do not empty into drains.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid
Form: liquid
Color: White
Odor: acrylic odor

Odor Threshold:No data available.Freezing point: $< 32 \,^{\circ}\text{F/} < 0 \,^{\circ}\text{C}$ Boiling Point: $> 212 \,^{\circ}\text{F/} > 100 \,^{\circ}\text{C}$ Flammability:Not flammable.

Upper/lower limit on flammability or explosive limits

**Explosive limit - upper:** not applicable **Explosive limit - lower:** not applicable

Flash Point: > 212 °F/> 100 °C estimated

**Self Ignition Temperature:** Not determined. **Decomposition** No data available.

Temperature:

**pH:** substance/mixture is non-soluble (in water) Not applicable

Viscosity

**Dynamic viscosity:** 8 - 11 mPa.s (113 °F/ 45 °C) **Kinematic viscosity:** 6.5 - 9.0 mm2/s (113 °F/ 45 °C)

Flow Time: not applicable

Solubility(ies)

Solubility in Water: Insoluble in water
Solubility (other): No data available.
Partition coefficient (n- Not applicable Mixture

octanol/water):

**Vapor pressure:**  $\leq 0.03 \text{ hPa } (68 \text{ °F/}20 \text{ °C})$ 

Relative density:

Density:

Bulk density:

Relative vapor density:

1.2288

not applicable

not applicable

No data available.

**Particle characteristics** 

Particle Size not applicable

Distribution:

Specific surface area: not applicable Surface charge/Zeta not applicable

potential:

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**Assessment:** not applicable Shape: not applicable **Crystallinity:** not applicable **Surface treatment:** not applicable

9.2 Other information

Minimum ignition > 392 °F/> 200 °C

temperature: **VOC Content:** 

EC Directive 1999/13: 0 g/l ~0 % (calculated)

#### **SECTION 10: Stability and reactivity**

10.1 Reactivity: Material is stable under normal conditions.

10.2 Chemical Stability: Material is stable under normal conditions.

10.3 Possibility of hazardous

reactions:

Not known.

10.4 Conditions to avoid: Avoid heat or contamination.

10.5 Incompatible Materials: None known.

10.6 Hazardous Decomposition

**Products:** 

By heating and fire, harmful vapors/gases may be formed.

#### **SECTION 11: Toxicological information**

#### Information on likely routes of exposure

Inhalation: Inhalation is the primary route of exposure. In high concentrations, vapors,

fumes or mists may irritate nose, throat and mucus membranes.

**Skin Contact:** Causes skin irritation. May cause an allergic skin reaction.

Eye contact: Causes serious eye damage.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Oral

**Product:** ATEmix: 7,658.95 mg/kg

Components:

2-Phenoxyethyl acrylate LD 50 (Rat): 5,000 mg/kg Experimental result, Key study

1-Vinylhexahydro-2H-

azepin-2-one

LD 50 (Rat): 1,732 mg/kg Experimental result, Key study

LD 50 (Rat): > 5,000 mg/kg Experimental result, Key study

Oxybis(methyl-2,1-

ethanediyl) diacrylate

LD 50 (Rat): 4,626 mg/kg Experimental result, Supporting study

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-No data available.

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enoate

2-phenoxyethanol LD 50 (Rat): 1,850 mg/kg Experimental result, Key study

No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-

methylpropiophenone

Oligo[2-hydroxy-2methyl-1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol

No data available.

No data available.

LD 50 (Rat): > 6,000 mg/kg Experimental result, Key study

LD 50 (Rabbit): 1,700 mg/kg Experimental result, Key study

LD 50 (Rabbit): > 2,000 mg/kg Experimental result, Key study

LD 50 (Rat): 1,694 mg/kg Experimental result, Key study

LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study

Dermal

**Product:** ATEmix 8,629.44 mg/kg

Components:

2-Phenoxyethyl

acrylate

1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1-

ethanediyl) diacrylate Diphenvl(2.4.6-

trimethylbenzoyl)phosp

hine oxide

2-phenoxyethyl prop-2-

enoate

2-phenoxyethanol

No data available.

No data available.

LD 50 (Rabbit): > 2,214 mg/kg Experimental result, Weight of Evidence

study

No data available.

[[(Butylamino)carbonyl]

oxy]ethyl acrylate

2-Hydroxy-2methylpropiophenone

Oligo[2-hydroxy-2-

methyl-1-[4-(1-

methylvinyl)phenyl]prop

anone 2.4.6-

trimethylbenzophenone

2,6-di-tert-Butyl-p-

cresol

LD 50 (Rat): 6,929 mg/kg Experimental result, Key study

LD 50 (Rat): 2,000 mg/kg Experimental result, Key study

No data available.

LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study

Inhalation

**Product:** ATEmix150 mg/l Dusts, mists and fumes

**Components:** 

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1ethanediyl) diacrylate No data available. No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

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Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-phenoxyethanol

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-

methylpropiophenone Oligo[2-hydroxy-2-

methyl-1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol

No data available.

RD 50 (Mouse, 30 min)60 ppm Vapor, Experimental result, Supporting

NOAEL (Rat(Female, Male), Oral, 43 - 53 d): 300 mg/kg

NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 mg/kg

NOAEL (Rat(Female, Male), Oral, 13 Weeks): 80 mg/kg

NOAEL (Rat(Female, Male), Oral, 28 d): >= 1,000 mg/kg

NOAEL (Rat(Female, Male), Inhalation): 0.058 mg/l

NOAEL (Rat(Female, Male), Oral, 28 d): 50 mg/kg

LC 50 (Rat, 6 h)> 1,000 mg/m3 Aerosol, Experimental result, Key study

LC50 (Rat, male/female, 4 h)1 - 5 mg/l Harmful by inhalation.

study

Repeated dose toxicity

**Product:** Components: No data available.

Causes skin irritation.

2-Phenoxyethyl acrylate

1-Vinylhexahydro-2Hazepin-2-one

Oxybis(methyl-2,1ethanediyl) diacrylate Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-phenoxyethanol

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2methylpropiophenone

Oligo[2-hydroxy-2methyl-1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-

trimethylbenzophenone 2,6-di-tert-Butyl-p-cresol

NOAEL (Rat(Male), Oral, 76 - 110 Weeks): 70 mg/kg

**Skin Corrosion/Irritation:** 

Components:

**Product:** 

2-Phenoxyethyl

acrylate 1-Vinylhexahydro-2H-

azepin-2-one

(Rabbit, 24 h): Not irritant Experimental result, Supporting study

in vivo (Rabbit): Not irritant Experimental result, Key study

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Oxybis(methyl-2,1-

ethanediyl) diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosp

hine oxide

2-phenoxyethyl prop-2-

enoate

2-phenoxyethanol

[[(Butylamino)carbonyl] oxy]ethyl acrylate

2-Hydroxy-2-

methylpropiophenone Oligo[2-hydroxy-2-

methyl-1-[4-(1methylvinyl)phenyl]prop

anone

2,4,6trimethylbenzophenone

2,6-di-tert-Butyl-p-

cresol

No data available.

in vivo (Rabbit): Not irritant Experimental result, Key study

No data available.

in vivo (Rabbit): Not irritant Experimental result, Key study

No data available.

No data available.

in vivo (Rabbit (New Zealand White - Albino)): Not classified

Experimental result, Key study

No data available.

in vivo (Rabbit, 24 - 72 h): Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation:

**Product:** Causes serious eye damage.

Components:

2-Phenoxyethyl

acrylate 1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1-

ethanediyl) diacrylate Diphenyl(2,4,6-

trimethylbenzoyl)phosp

hine oxide

2-phenoxyethyl prop-2-

enoate

2-phenoxyethanol

[[(Butylamino)carbonyl]

oxylethyl acrylate

2-Hydroxy-2-

methylpropiophenone

Oligo[2-hydroxy-2-

methyl-1-[4-(1-

methylvinyl)phenyl]prop

anone

2,4,6-

trimethylbenzophenone

2,6-di-tert-Butyl-p-

cresol

No data available.

No data available.

in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS

No data available.

No data available.

in vivo (Rabbit, 24 - 72 hrs): Irritating EU No data available.

in vivo (Rabbit, 2 d): Not irritating EU

No data available.

No data available.

in vivo (Rabbit, 24 - 72 hrs): Not irritating EU

Respiratory or Skin Sensitization:

> **Product:** May cause an allergic skin reaction.

Components:

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2-Phenoxyethyl

acrvlate

1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1-

ethanediyl) diacrylate Diphenyl(2,4,6-

trimethylbenzoyl)phosp

hine oxide

2-phenoxyethyl prop-2-

enoate

2-phenoxyethanol

2-[[(Butylamino)carbonyl]

oxy]ethyl acrylate

2-Hydroxy-2-

methylpropiophenone Oligo[2-hydroxy-2-

methyl-1-[4-(1-

methylvinyl)phenyl]prop

anone 2.4.6-

trimethylbenzophenone

2,6-di-tert-Butyl-p-

cresol

No data available.

Skin sensitization:, in vivo (Guinea pig): Sensitising

Skin sensitization:, in vivo (Guinea pig): Non sensitising

No data available.

Skin sensitization:, in vivo (Guinea pig): Non sensitising

#### **Germ Cell Mutagenicity**

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

#### In vitro

#### Components:

2-Phenoxyethyl acrylate

1-Vinylhexahydro-2Hazepin-2-one

Oxybis(methyl-2,1-

ethanediyl) diacrylate Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-phenoxyethanol

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-

methylpropiophenone Oligo[2-hydroxy-2-methyl-

1-[4-(1methylvinyl)phenyl]propa

none

2,4,6-

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol

No data available. No data available.

#### In vivo

#### Components:

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2-Phenoxyethyl acrylate

1-Vinylhexahydro-2H-

No data available. No data available.

No data available.

No data available.

azepin-2-one

Oxybis(methyl-2,1-

ethanediyl) diacrylate Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

No data available.

2-phenoxyethanol 2No data available. No data available.

No data available.

No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate 2-Hydroxy-2-

methylpropiophenone

Oligo[2-hydroxy-2-methyl-

1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-

No data available.

trimethylbenzophenone 2,6-di-tert-Butyl-p-cresol

No data available.

Carcinogenicity

**Product:** Not classified The titanium dioxide in this product is embedded in a matrix

which minimizes the likelihood of exposure to the pigment.

Components:

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2H-

azepin-2-one

No data available. No data available.

No data available.

No data available.

Oxybis(methyl-2,1-

ethanediyl) diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-phenoxyethanol

No data available.

No data available. No data available.

No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-No data available. methylpropiophenone

Oligo[2-hydroxy-2-methyl-

1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-No data available.

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol No data available.

Reproductive toxicity

**Product:** Suspected of damaging fertility. Suspected of damaging the unborn child.

Components:

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2-Phenoxyethyl acrylate

1-Vinylhexahydro-2H-

azepin-2-one

No data available.

Oxybis(methyl-2,1-

ethanediyl) diacrylate

Diphenyl(2,4,6trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-phenoxyethanol

2-

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-

methylpropiophenone

Oligo[2-hydroxy-2-methyl-

1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol

No data available.

No data available.

No data available.

No data available.

No data available. No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available. No data available.

No data available.

No data available.

#### **Specific Target Organ Toxicity - Single Exposure**

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

Components:

2-Phenoxyethyl acrylate

1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1-

ethanediyl) diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-phenoxyethanol

[[(Butylamino)carbonyl]ox

vlethyl acrylate

2-Hydroxy-2-

methylpropiophenone

Oligo[2-hydroxy-2-methyl-

1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-

trimethylbenzophenone

No data available.

2,6-di-tert-Butyl-p-cresol No data available.

#### **Specific Target Organ Toxicity - Repeated Exposure**

Product: Causes damage to organs through prolonged or repeated exposure.

Components:

2-Phenoxyethyl acrylate No data available.

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1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1ethanediyl) diacrylate

No data available.

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide 2-phenoxyethyl prop-2-

No data available.

No data available.

No data available.

enoate

2-phenoxyethanol

No data available. No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-

No data available.

methylpropiophenone

Oligo[2-hydroxy-2-methyl-

1-[4-(1-

No data available.

methylvinyl)phenyl]propa

none

2-

2,4,6-No data available.

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol

No data available.

**Target Organs:** Liver, Respiratory system

**Aspiration Hazard** 

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

Components:

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2H-

azepin-2-one

No data available. No data available.

No data available.

Oxybis(methyl-2,1ethanediyl) diacrylate

No data available.

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-No data available.

enoate

2-phenoxyethanol No data available. No data available.

[[(Butylamino)carbonyl]ox

ylethyl acrylate

2-Hydroxy-2-No data available.

methylpropiophenone

Oligo[2-hydroxy-2-methyl-

No data available.

1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-No data available.

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol No data available.

#### 11.2 Information on health hazards

#### **Endocrine Disruption**

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**Product:** The substance/mixture does not contain components

> considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of

0.1% or higher.;

Components:

2-Phenoxyethyl acrylate No data available. 1-Vinylhexahydro-2H-No data available.

azepin-2-one

Oxybis(methyl-2,1-No data available.

ethanediyl) diacrylate

Diphenyl(2,4,6-No data available. trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

No data available.

2-phenoxyethanol No data available. No data available.

[[(Butylamino)carbonyl]ox

vlethyl acrylate

2-Hydroxy-2-No data available.

methylpropiophenone

Oligo[2-hydroxy-2-methyl-

1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-No data available.

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol No data available.

#### **SECTION 12: Ecological information**

General information: Contains a substance which causes risk of hazardous effects to the

environment.

No data available.

#### 12.1 Toxicity

#### Acute toxicity

#### Remarks:

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

Fish

**Product:** No data available.

Components

2-Phenoxyethyl acrylate No data available.

LC 50 (Danio rerio, 96 h): 318 mg/l (Static) Experimental result, Key study 1-Vinylhexahydro-2Hazepin-2-one NOAEL (Danio rerio, 96 h): 215 mg/l (Static) Experimental result, Key study Oxybis(methyl-2,1-NOAEL (Leuciscus idus, 96 h): 1 mg/l (Static) Experimental result, Key study

LC 50 (Leuciscus idus, 96 h): 2.2 mg/l (Static) ethanediyl) diacrylate

Diphenyl(2,4,6-LC 50 (Oryzias latipes, 48 h): +/- 6.53 mg/l (semi-static) Experimental result,

trimethylbenzoyl)phosphi Key study

ne oxide

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2-phenoxyethyl prop-2-

enoate

No data available.

2-phenoxyethanol

LC 50 (Pimephales promelas, 96 h): 344 mg/l (flow-through) Experimental

NOAEL (Oncorhynchus mykiss, 96 h): > 3.7 mg/l (Static) Experimental

result, Key study

No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-

No data available.

methylpropiophenone Oligo[2-hydroxy-2-

methyl-1-[4-(1-

result, Key study

methylvinyl)phenyl]propa

none

2,4,6-No data available.

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol

LC 50 (96 h): 0.199 mg/l QSAR QSAR, Key study

**Aquatic Invertebrates** 

**Product:** 

No data available.

Components

2-Phenoxyethyl acrylate

EC 50 (Daphnia magna, 48 h): 1.21 mg/l (Static) Experimental result, Key

1-Vinylhexahydro-2H-

azepin-2-one

EC 50 (Daphnia magna, 48 h): > 100 mg/l (Static) Experimental result, Key

EC 50 (Daphnia magna, 48 h): 3.53 mg/l (Static) Experimental result, Key

study No data available.

study

Oxybis(methyl-2,1ethanediyl) diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

No data available.

No data available.

EC 50 (Daphnia magna, 48 h): 460 mg/l (Static) Experimental result, Not

EC 50 (Daphnia magna, 48 h): > 119 mg/l (Static) Experimental result, Key

EC 50 (Daphnia magna, 48 h): > 3.7 mg/l Experimental result, Key study

specified

study

2-

[[(Butylamino)carbonyl]ox

2-phenoxyethanol

y]ethyl acrylate

2-Hydroxy-2methylpropiophenone

Oligo[2-hydroxy-2methyl-1-[4-(1-

methylvinyl)phenyl]propa

none

2.4.6-

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol

EC 50 (Daphnia magna, 48 h): 0.48 mg/l (Static) Experimental result, Key

study

**Toxicity to Aquatic Plants** 

**Product:** 

No data available.

No data available.

Components

2-Phenoxyethyl acrylate

1-Vinylhexahydro-2Hazepin-2-one

No data available. No data available.

Oxybis(methyl-2,1ethanediyl) diacrylate

Diphenyl(2,4,6-

No data available.

No data available.

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trimethylbenzoyl)phosphi

ne oxide

2-

2-phenoxyethyl prop-2-

enoate

No data available.

2-phenoxyethanol

No data available. No data available.

No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-EC 50 (Desmodesmus subspicatus (algae), 72 h): 1.95 mg/l

methylpropiophenone

Oligo[2-hydroxy-2-

methyl-1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-No data available.

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol No data available.

Toxicity to microorganisms

**Product:** No data available.

Components

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2H-

azepin-2-one

No data available. No data available.

Oxybis(methyl-2,1-

ethanediyl) diacrylate

No data available.

Diphenyl(2,4,6-

ne oxide

trimethylbenzoyl)phosphi

2-phenoxyethyl prop-2-

2-phenoxyethanol

enoate

No data available.

No data available.

88/302/EEC C.11)

No data available 2-

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-EC50 (3 h): > 1,000 mg/l (OECD-Guideline No.209; 88/302/EEC C.11)

EC50 (waste sludge, 17 h): > 880 mg/l (OECD-Guideline No.209;

methylpropiophenone

Oligo[2-hydroxy-2methyl-1-[4-(1No data available.

methylvinyl)phenyl]propa

none

2.4.6-No data available

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol No data available.

**Chronic Toxicity** 

Remarks:

Toxic to aquatic life with long lasting effects.

Fish

**Product:** No data available.

Components

2-Phenoxyethyl acrylate No data available.

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1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1ethanediyl) diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-phenoxyethanol LC 50 (Danio rerio, 6 d): 461.5 - 521.6 mg/l (semi-static) Experimental result,

Supporting study No data available. 2-

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2methylpropiophenone

Oligo[2-hydroxy-2methyl-1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol

No data available.

No data available.

**Aquatic Invertebrates** 

**Product:** 

No data available.

No data available. No data available.

No data available.

No data available.

Components

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1ethanediyl) diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-phenoxyethanol

[[(Butylamino)carbonyl]ox

vlethyl acrylate

2-Hydroxy-2-

methylpropiophenone Oligo[2-hydroxy-2-

methyl-1-[4-(1methylvinyl)phenyl]propa

none

2,4,6-

2,6-di-tert-Butyl-p-cresol

No data available. trimethylbenzophenone

No data available.

**Toxicity to Aquatic Plants Product:** 

No data available.

Components

2-Phenoxyethyl acrylate No data available. 1-Vinylhexahydro-2H-No data available.

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azepin-2-one

Oxybis(methyl-2,1-

No data available.

ethanediyl) diacrylate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi ne oxide

2-phenoxyethyl prop-2-

No data available.

enoate

2-phenoxyethanol

No data available.

2-

No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-

No data available.

methylpropiophenone Oligo[2-hydroxy-2-

methyl-1-[4-(1-

No data available.

methylvinyl)phenyl]propa

2.4.6-

none

No data available.

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol

No data available.

#### 12.2 Persistence and Degradability

#### **Biodegradation**

**Product:** No data available.

Components

2-Phenoxyethyl acrylate

1-Vinylhexahydro-2Hazepin-2-one

(28 d): 22.3 % Detected in water. Experimental result, Key study (28 d): 30 - 40 % Detected in water. Experimental result, Key study

(28 d): 90 - 100 % Detected in water. Experimental result, Key study

Oxybis(methyl-2,1ethanediyl) diacrylate

(28 d): > 0 - 10 % Detected in water. Experimental result, Key study

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

No data available.

2-phenoxyethyl prop-2enoate

> 70 % Detected in water. Experimental result, Supporting study No data available.

2-phenoxyethanol

[[(Butylamino)carbonyl]ox

y]ethyl acrylate 2-Hydroxy-2-

(28 d): 90 - 100 % Detected in water. Experimental result, Key study

methylpropiophenone

Oligo[2-hydroxy-2-methyl-1-[4-(1(28 d): 1.8 % Detected in water. Experimental result, Key study

methylvinyl)phenyl]propa none

2.4.6-

No data available.

trimethylbenzophenone 2,6-di-tert-Butyl-p-cresol

(28 d): 4.5 % Detected in water. Experimental result, Key study

**BOD/COD Ratio** 

**Product** No data available.

Components

No data available. 2-Phenoxyethyl acrylate

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1-Vinylhexahydro-2H-

azepin-2-one

No data available.

Oxybis(methyl-2,1-

ethanediyl) diacrylate

No data available.

No data available.

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

No data available.

enoate 2-phenoxyethanol

2-

No data available. No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-

No data available.

methylpropiophenone

Oligo[2-hydroxy-2-methyl-

No data available.

1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-No data available.

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol No data available.

#### 12.3 Bioaccumulative potential

**Product:** No data available.

Components

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2H-

No data available. No data available.

azepin-2-one

Oxybis(methyl-2,1ethanediyl) diacrylate No data available.

Diphenyl(2,4,6trimethylbenzoyl)phosphi

Cyprinus carpio, Bioconcentration Factor (BCF): 22 - 32 Aquatic

sediment Experimental result, Key study

ne oxide 2-phenoxyethyl prop-2-

enoate

No data available.

2-phenoxyethanol

Bioconcentration Factor (BCF): 0.35 Aquatic sediment Estimated by

calculation, Key study No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate 2-Hydroxy-2-

No data available.

methylpropiophenone

Oligo[2-hydroxy-2-methyl-

1-[4-(1-

methylvinyl)phenyl]propa

none

No data available.

2,4,6-

trimethylbenzophenone

No data available.

2,6-di-tert-Butyl-p-cresol Bioconcentration Factor (BCF): 598.4 Aquatic sediment Estimated by

calculation, Weight of Evidence study

12.4 Mobility in soil

**Product:** No data available.

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Components

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2H-

No data available.

No data available.

azepin-2-one

Oxybis(methyl-2,1-

No data available.

ethanediyl) diacrylate Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphine

oxide

2-phenoxyethyl prop-2-

No data available.

enoate

2-phenoxyethanol

No data available.

2-

No data available.

[[(Butylamino)carbonyl]oxy]

ethyl acrylate

No data available.

2-Hydroxy-2methylpropiophenone

Oligo[2-hydroxy-2-methyl-1-

No data available.

methylvinyl)phenyl]propano

ne

2.4.6-No data available.

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol No data available.

#### 12.5 Results of PBT and vPvB assessment

**Product:** Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling

vPvB (very persistent/very bioaccummulative) criteria

Components

2-Phenoxyethyl

No data available.

acrylate

1-Vinylhexahydro-

No data available.

2H-azepin-2-one

Oxybis(methyl-2,1-

No data available.

ethanediyl)

diacrylate

No data available.

Diphenyl(2,4,6trimethylbenzoyl)pho

sphine oxide

2-phenoxyethyl

No data available.

prop-2-enoate

No data available.

2-phenoxyethanol

No data available.

[[(Butylamino)carbon

yl]oxy]ethyl acrylate

No data available.

2-Hydroxy-2methylpropiophenon

2-

Oligo[2-hydroxy-2-

No data available.

methyl-1-[4-(1-

methylvinyl)phenyl]p

ropanone

2,4,6-

No data available.

trimethylbenzophen

one

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2,6-di-tert-Butyl-p-

No data available.

cresol

#### 12.6 Endocrine disrupting properties

**Product:** The substance/mixture does not contain components

> considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of

0.1% or higher.

Components:

2-Phenoxyethyl acrylate No data available. No data available. 1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1-No data available.

ethanediyl) diacrylate

Diphenyl(2,4,6-No data available.

trimethylbenzoyl)phosphine

oxide

No data available. 2-phenoxyethyl prop-2-

enoate

No data available. 2-phenoxyethanol No data available.

[[(Butylamino)carbonyl]oxy]e

thyl acrylate

2-Hydroxy-2-No data available.

methylpropiophenone

Oligo[2-hydroxy-2-methyl-1-

[4-(1-

methylvinyl)phenyl]propanon

2,4,6-

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol No data available.

12.7 Other adverse effects: Toxic to aquatic life with long lasting effects.

No data available.

No data available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**General information:** Disposal considerations (including disposal of contaminated containers or

> packaging) Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local

Since emptied containers retain product residue, follow label warnings even

after container is emptied.

**Contaminated Packaging:** Dispose in accordance with all applicable regulations.

#### **SECTION 14: Transport information**

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### SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

#### **ADR**

14.1 UN Number: UN 3082

14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.(Acrylate)

14.3 Transport Hazard Class(es)

Class: 9 Label(s): 9 Hazard No. (ADR): 90 Tunnel restriction code: (-)14.4 Packing Group: Ш Limited quantity 5.00L E1 **Excepted quantity** 14.5 Environmental Hazards: Yes

14.6 Special precautions for user: SPECIAL PROVISION 375 (<= 5kg/<= 5L)

#### RID

14.1 UN Number: UN 3082

14.2 UN Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.(Acrylate)

14.3 Transport Hazard Class(es)

Class: 9
Label(s): 9

14.4 Packing Group: III

14.5 Environmental Hazards: Yes

14.6 Special precautions for user: -

#### **IMDG**

14.1 UN Number: UN 3082

14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.(Acrylate)

14.3 Transport Hazard Class(es)

Class: 9
Label(s): 9
EmS No.: F-A, S-F

14.4 Packing Group: III
Limited quantity 5.00L
Excepted quantity E1

14.5 Environmental Hazards: Environmentally Hazardous

14.6 Special precautions for user: CODE 2.10.2.7 if packaging <= 5L or <= 5kg

#### **IATA**

14.1 UN Number: UN 3082

14.2 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Acrylate)

14.3 Transport Hazard Class(es):

Class: 9
Label(s): 9MI

14.4 Packing Group: III
Excepted quantity E1

14.5 Environmental Hazards: Yes

14.6 Special precautions for user: SPECIAL PROVISION A197 if packaging <= 5L or <= 5kg

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### SAFETY DATA SHEET

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Other information

Passenger and cargo aircraft: Allowed.

Cargo aircraft only: Allowed.

14.7 Maritime transport in bulk according to IMO instruments: not applicable

#### **SECTION 15: Regulatory information**

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

**EU Regulations** 

- EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none
- EU. REACH Annex XIV, Substances Subject to Authorization: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: none

- EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none
- EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17:

Chemical name	CAS-No.
Titanium dioxide	13463-67-7
Diphenyl(2,4,6-trimethylbenzoyl)phosphine	75980-60-8
oxide	

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

Chemical name	CAS-No.	Concentration
Titanium dioxide	13463-67-7	10 - 20%
Diphenyl(2,4,6-trimethylbenzoyl)phosphine	75980-60-8	1.0 - 10%
oxide		

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# EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

Classification	Lower-tier Requirements	Upper-tier Requirements
E2. Hazardous to the aquatic environment	200 t	500 t

#### EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

Chemical name	CAS-No.	Concentration	
Titanium dioxide	13463-67-7	10 - 20%	

#### Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Titanium dioxide	13463-67-7	10 - 20%
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	1.0 - 10%
2-phenoxyethanol	122-99-6	1.0 - 10%
caprolactam	105-60-2	0.1 - 1.0%
2,4,6-trimethylbenzophenone	954-16-5	0.1 - 1.0%
Phenol, 4-methoxy-	150-76-5	0 - <0.1%

# 15.2 Chemical safety assessment:

Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

Abbreviations and acronyms:

ADR	Accord européen relatif au transport international des marchandises Dangereuses par
	Route
ADNR	Accord européen relatif au transport international des marchandises Dangereuses par la
	Rhin
AGW	Arbeitsplatzgrenswerte (DE)
ATEmix	Acute toxicity estimate of the mixture
CLP	Classification, Labelling and Packaging of substances and mixtures
CMR	carcinogenicity, mutagenicity and toxicity for reproduction
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 (GB)
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IC50	inhibitory concentration 50%
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IUCLID	International Uniform ChemicaL Information Database
LC50	Lethal Concentration 50%
LC100	Lethal Concentration 100%
LOAEL	Lowest Observed Adverse Effect Level

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LDL0	Lethal Dose (minimum found to be lethal)
LD50	Lethal Dose 50%
MAC	Maximaal Aanvaardbare Concentratie (NL)
MAK	Maximale Arbeitsplatz-Konzentration
NOAEL	No Observed Adverse Effect Level
NOEL	No Observed Effect Level
NOEC	No Observed Effect Concentration
OEL	Occupatianal Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Transport of Dangerous Goods by Rail
STEL	Short Term Exposure Limit
TLV	Treshold Limit Value
TRGS900	Arbeitsplatzgrenswerte (DE)
TWA	Time Weighted Average
VOC	Volatile Organic Compound
vPvB	very Persistent and very Bioaccumulative substance

Key literature references and

Safety Data Sheet from the supplier.

sources for data:

ECHA

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 as amended.	Classification procedure
Skin irritation, Category 2	Calculation method
Serious eye damage, Category 1	Calculation method
Skin sensitizer, Category 1	Calculation method
Toxic to reproduction, Category 2	Calculation method
Specific Target Organ Toxicity - Repeated Exposure, Category 1	Calculation method
Chronic hazards to the aquatic environment, Category 2	Calculation method

Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or
	repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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# **SAFETY DATA SHEET**

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H412 Harmful to aquatic life with long lasting effects.

**Training information:** Follow training instructions when handling this material.

**Disclaimer:** This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.