

# SAFETY DATA SHEET

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

## 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.

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

Roland DG EMEA NV  
Bell-Telephonaan 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 environment	Category 2	H411: Toxic to aquatic life with long lasting effects.
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### 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 bioaccumulative) 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-Vinylhexahydro-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-trimethylbenzoyl)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-phenoxyethanol	1 - <5%	122-99-6	204-589-7	01-2119488943-21-XXXX;	No data available.	
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	1 - <2.5%	63225-53-6	264-036-0	No data available.	No data available.	
2-Hydroxy-2-methylpropiophenone	1 - <5%	7473-98-5	231-272-0	01-2119472306-39-XXXX;	No data available.	
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	0.1 - <1%	163702-01-0	402-990-3	01-0000015270-82-0000;	No data available.	
2,4,6-trimethylbenzophenone	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	
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\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# This substance has workplace exposure limit(s).

## This substance is listed as SVHC.

## Classification

Chemical name	Classification	Notes
2-Phenoxyethyl acrylate	Classification: Skin Sens.: 1A: H317; Repr.: 2: H361d; Aquatic Chronic: 2: H411;	No data available.
1-Vinylhexahydro-2H-azepin-2-one	Classification: Acute Tox.: 4: H302; Eye Irrit.: 2A: H319; Skin Sens.: 1B: H317; STOT RE: 1: H372; Acute Tox.: 4: H312; Acute toxicity, oral: LD 50: 1,732 mg/kg Acute toxicity, dermal: LD 50: 1,700 mg/kg	No data available.
Oxybis(methyl-2,1-ethanediy) diacrylate	Classification: Skin Sens.: 1: H317; Eye Dam.: 1: H318; Skin Irrit.: 2: H315;	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Classification: Repr.: 2: H361f; Skin Sens.: 1: H317; Aquatic Chronic: 2: H411;	No data available.
2-phenoxyethyl prop-2-enoate	Classification: Skin Sens.: 1: H317; Aquatic Chronic: 2: H411;	No data available.
2-phenoxyethanol	Classification: Eye Irrit.: 2: H319; Acute Tox.: 4: H302; Acute toxicity, oral: LD 50: 1,850 mg/kg Acute toxicity, inhalation: LC 50: > 1,000 mg/m <sup>3</sup> Acute toxicity, dermal: LD 50: > 2,214 mg/kg	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	Classification: Acute Tox.: 4: H332; Skin Sens.: 1: H317; Aquatic Chronic: 2: H411; Acute toxicity, inhalation: LC50: 1 - 5 mg/l	No data available.
2-Hydroxy-2-methylpropiophenone	Classification: Acute Tox.: 4: H302; Aquatic Chronic: 3: H412; Acute toxicity, oral: LD 50: 1,694 mg/kg Acute toxicity, dermal: LD 50: 6,929 mg/kg	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	Classification: Repr.: 2: H361f;	No data available.
2,4,6-trimethylbenzophenone	Classification: Acute Tox.: 4: H302; Eye Irrit.: 2: H319; Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410;	No data available.
2,6-di-tert-Butyl-p-cresol	Classification: Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410;	No data available.

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.

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## 4.1 Description of first aid measures

<b>Inhalation:</b>	Move to fresh air.
<b>Skin Contact:</b>	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.
<b>Eye contact:</b>	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.
<b>Ingestion:</b>	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
<b>Personal Protection for First-aid Responders:</b>	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

<b>Hazards:</b>	See section 11 of the SDS for additional information on health hazards.
<b>Treatment:</b>	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:** Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2 Special hazards arising from the substance or 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	Type	Exposure Limit Values	Source
2,6-di-tert-Butyl-p-cresol	TWA	10 mg/m <sup>3</sup>	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	Type	Route of Exposure	Health Warnings	Remarks
2-Phenoxyethyl acrylate	Workers	Inhalation	Local, long-term; 77 mg/m <sup>3</sup>	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 12 mg/m <sup>3</sup>	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
1-Vinylhexahydro-2H-azepin-2-one	General population	Eyes	Local effect;	No hazard identified
	Workers	Dermal	Systemic, long-term; 3.5 mg/kg	Repeated dose toxicity
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
Oxybis(methyl-2,1-ethanediyl) diacrylate	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
	Workers	Inhalation	Systemic, long-term; 24.48 mg/m <sup>3</sup>	Repeated dose toxicity

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	General population	Inhalation	Systemic, long-term; 7.24 mg/m <sup>3</sup>	Repeated dose toxicity
	Workers	Eyes	Local effect;	No data available
	General population	Eyes	Local effect;	No data available
	Workers	Dermal	Systemic, long-term; 2.77 mg/kg	Repeated dose toxicity
	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/m <sup>3</sup>	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	General population	Dermal	Systemic, long-term; 83.3 µg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 83.3 µg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 0.145 mg/m <sup>3</sup>	Repeated dose toxicity
2-phenoxyethyl prop-2-enoate	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Local, long-term; 97 mg/m <sup>3</sup>	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 12 mg/m <sup>3</sup>	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/m <sup>3</sup>	Repeated dose toxicity
	General population	Inhalation	Local, long-term; 2.41 mg/m <sup>3</sup>	Repeated dose toxicity
	Workers	Inhalation	Local, long-term; 5.7 mg/m <sup>3</sup>	
	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/m <sup>3</sup>	
	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
	Workers	Inhalation	Systemic, long-term; 9.9 mg/m <sup>3</sup>	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 1.7 mg/m <sup>3</sup>	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
	Workers	Dermal	Systemic, long-term; 2 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 1 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 1 mg/kg	Repeated dose toxicity
2-Hydroxy-2-methylpropiophenone	Workers	Inhalation	Systemic, long-term; 3.5 mg/m <sup>3</sup>	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 0.9 mg/m <sup>3</sup>	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/m <sup>3</sup>	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/m <sup>3</sup>	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/m <sup>3</sup>	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 3.5 mg/m <sup>3</sup>	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	
	Aquatic (marine water)	0.2 µg/l	
	Aquatic (freshwater)	2 µg/l	
	Marine sediments	0.002 mg/kg	
	freshwater sediment	0.02 mg/kg	
Oxybis(methyl-2,1-ethanediy) diacrylate	soil	0.001 mg/kg	
	Aquatic (freshwater)	0.003 mg/l	
	Sewage treatment plant	100 mg/l	
	Aquatic (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-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	soil	0.003 mg/kg	
	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-methylpropiophenone	soil	0.001 mg/kg	
	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-(1-methylvinyl)phenyl]propanone	Aquatic (freshwater)	0.003 mg/l	
	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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<b>Respiratory Protection:</b>	In case of inadequate ventilation use suitable respirator (EN14387). Seek advice from local supervisor.
<b>Hygiene measures:</b>	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.
<b>Environmental Controls:</b>	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 °F/< 0 °C**Boiling Point:** > 212 °F/> 100 °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 Temperature:** No data available.**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 mm<sup>2</sup>/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-octanol/water):** Not applicable Mixture**Vapor pressure:** <= 0.03 hPa (68 °F/20 °C)**Relative density:** 1.2288**Density:** not applicable**Bulk density:** not applicable**Relative vapor density:** No data available.

#### Particle characteristics

**Particle Size** not applicable**Distribution:****Specific surface area:** not applicable**Surface charge/Zeta potential:** not applicable

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<b>Assessment:</b>	not applicable
<b>Shape:</b>	not applicable
<b>Crystallinity:</b>	not applicable
<b>Surface treatment:</b>	not applicable

## 9.2 Other information

<b>Minimum ignition temperature:</b>	> 392 °F/> 200 °C
<b>VOC Content:</b>	EC Directive 1999/13: 0 g/l ~0 % (calculated)

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Material is stable under normal conditions.
<b>10.2 Chemical Stability:</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Not known.
<b>10.4 Conditions to avoid:</b>	Avoid heat or contamination.
<b>10.5 Incompatible Materials:</b>	None known.
<b>10.6 Hazardous Decomposition Products:</b>	By heating and fire, harmful vapors/gases may be formed.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
<b>Skin Contact:</b>	Causes skin irritation. May cause an allergic skin reaction.
<b>Eye contact:</b>	Causes serious eye damage.
<b>Ingestion:</b>	May be ingested by accident. Ingestion may cause irritation and malaise.

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Oral

<b>Product:</b>	ATEmix: 7,658.95 mg/kg
<b>Components:</b>	
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
Oxybis(methyl-2,1-ethanediyl) diacrylate	LD 50 (Rat): 4,626 mg/kg Experimental result, Supporting study
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	LD 50 (Rat): > 5,000 mg/kg Experimental result, Key study
2-phenoxyethyl prop-2-	No data available.

# SAFETY DATA SHEET

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

enoate	
2-phenoxyethanol	LD 50 (Rat): 1,850 mg/kg Experimental result, Key study
2- [[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	LD 50 (Rat): 1,694 mg/kg Experimental result, Key study
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	LD 50 (Rat): > 6,000 mg/kg Experimental result, Key study

## Dermal

<b>Product:</b>	ATEmix 8,629.44 mg/kg
<b>Components:</b>	
2-Phenoxyethyl acrylate	No data available.
1-Vinylhexahydro-2H-azepin-2-one	LD 50 (Rabbit): 1,700 mg/kg Experimental result, Key study
Oxybis(methyl-2,1-ethanediyl) diacrylate	LD 50 (Rabbit): > 2,000 mg/kg Experimental result, Key study
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	LD 50 (Rabbit): > 2,214 mg/kg Experimental result, Weight of Evidence study
2- [[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	LD 50 (Rat): 6,929 mg/kg Experimental result, Key study
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	LD 50 (Rat): 2,000 mg/kg Experimental result, Key study
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study

## Inhalation

<b>Product:</b>	ATEmix150 mg/l Dusts, mists and fumes
<b>Components:</b>	
2-Phenoxyethyl acrylate	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.

# SAFETY DATA SHEET

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

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	LC 50 (Rat, 6 h) > 1,000 mg/m <sup>3</sup> Aerosol, Experimental result, Key study
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	LC50 (Rat, male/female, 4 h) 1 - 5 mg/l Harmful by inhalation.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	RD 50 (Mouse, 30 min) 60 ppm Vapor, Experimental result, Supporting study

## Repeated dose toxicity

### Product:

No data available.

### Components:

2-Phenoxyethyl acrylate	NOAEL (Rat(Female, Male), Oral, 43 - 53 d): 300 mg/kg
1-Vinylhexahydro-2H-azepin-2-one	NOAEL (Rat(Female, Male), Inhalation): 0.058 mg/l
Oxybis(methyl-2,1-ethanediyl) diacrylate	NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 mg/kg
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	NOAEL (Rat(Female, Male), Oral, 28 d): 50 mg/kg
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	NOAEL (Rat(Female, Male), Oral, 13 Weeks): 80 mg/kg
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	NOAEL (Rat(Female, Male), Oral, 28 d): >= 1,000 mg/kg
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	NOAEL (Rat(Male), Oral, 76 - 110 Weeks): 70 mg/kg

## Skin Corrosion/Irritation:

### Product:

Causes skin irritation.

### Components:

2-Phenoxyethyl acrylate	(Rabbit, 24 h): Not irritant Experimental result, Supporting study
1-Vinylhexahydro-2H-azepin-2-one	in vivo (Rabbit): Not irritant Experimental result, Key study

# SAFETY DATA SHEET

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

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	in vivo (Rabbit): Not irritant Experimental result, Key study
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	in vivo (Rabbit): Not irritant Experimental result, Key study
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	in vivo (Rabbit (New Zealand White - Albino)): Not classified Experimental result, Key study
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	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	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	in vivo (Rabbit, 24 - 72 hrs): Irritating EU
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	in vivo (Rabbit, 2 d): Not irritating EU
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	in vivo (Rabbit, 24 - 72 hrs): Not irritating EU

## Respiratory or Skin Sensitization:

### Product:

May cause an allergic skin reaction.

### Components:

# SAFETY DATA SHEET

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

2-Phenoxyethyl acrylate	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	Skin sensitization:, in vivo (Guinea pig): Non sensitising
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	Skin sensitization:, in vivo (Guinea pig): Sensitising
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	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	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	No data available.

### In vivo

**Components:**

# SAFETY DATA SHEET

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

2-Phenoxyethyl acrylate	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	No data available.
2,4,6-trimethylbenzophenone	No data available.
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	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	No data available.

## Reproductive toxicity

### Product:

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

### Components:



# SAFETY DATA SHEET

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

2-Phenoxyethyl acrylate	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	No data available.

## Specific Target Organ Toxicity - Single Exposure

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

### Components:

2-Phenoxyethyl acrylate	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	No data available.
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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# SAFETY DATA SHEET

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

1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	No data available.
2,4,6-trimethylbenzophenone	No data available.
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	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	No data available.

**11.2 Information on health hazards****Endocrine Disruption**

# SAFETY DATA SHEET

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

**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-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	No data available.
2,4,6-trimethylbenzophenone	No data available.
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.

**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.
1-Vinylhexahydro-2H-azepin-2-one	LC 50 (Danio rerio, 96 h): 318 mg/l (Static) Experimental result, Key study NOAEL (Danio rerio, 96 h): 215 mg/l (Static) Experimental result, Key study
Oxybis(methyl-2,1-ethanediyl) diacrylate	NOAEL (Leuciscus idus, 96 h): 1 mg/l (Static) Experimental result, Key study LC 50 (Leuciscus idus, 96 h): 2.2 mg/l (Static)
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	LC 50 (Oryzias latipes, 48 h): +/- 6.53 mg/l (semi-static) Experimental result, Key study

# SAFETY DATA SHEET

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

2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	LC 50 (Pimephales promelas, 96 h): 344 mg/l (flow-through) Experimental result, Key study
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	NOAEL (Oncorhynchus mykiss, 96 h): > 3.7 mg/l (Static) Experimental result, Key study
2,4,6-trimethylbenzophenone	No data available.
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 study
1-Vinylhexahydro-2H-azepin-2-one	EC 50 (Daphnia magna, 48 h): > 100 mg/l (Static) Experimental result, Key study
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	EC 50 (Daphnia magna, 48 h): 3.53 mg/l (Static) Experimental result, Key study
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	EC 50 (Daphnia magna, 48 h): 460 mg/l (Static) Experimental result, Not specified
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	EC 50 (Daphnia magna, 48 h): > 119 mg/l (Static) Experimental result, Key study
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	EC 50 (Daphnia magna, 48 h): > 3.7 mg/l Experimental result, Key study
2,4,6-trimethylbenzophenone	No data available.
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.

### Components

2-Phenoxyethyl acrylate	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-	No data available.

# SAFETY DATA SHEET

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

trimethylbenzoyl)phosphine oxide	
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	EC 50 (Desmodesmus subspicatus (algae), 72 h): 1.95 mg/l
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	No data available.

## Toxicity to microorganisms

**Product:** No data available.

### Components

2-Phenoxyethyl acrylate	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	EC50 (waste sludge, 17 h): > 880 mg/l (OECD-Guideline No.209; 88/302/EEC C.11)
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available
2-Hydroxy-2-methylpropiophenone	EC50 (3 h): > 1,000 mg/l (OECD-Guideline No.209; 88/302/EEC C.11)
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	No data available.
2,4,6-trimethylbenzophenone	No data available
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.

# SAFETY DATA SHEET

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

1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	LC 50 (Danio rerio, 6 d): 461.5 - 521.6 mg/l (semi-static) Experimental result, Supporting study
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	No data available.

## Aquatic Invertebrates

**Product:** No data available.

## Components

2-Phenoxyethyl acrylate	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	No data available.

## Toxicity to Aquatic Plants

**Product:** No data available.

## Components

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

# SAFETY DATA SHEET

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

azepin-2-one	
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	No data available.

## 12.2 Persistence and Degradability

### Biodegradation

**Product:** No data available.

### Components

2-Phenoxyethyl acrylate	(28 d): 22.3 % Detected in water. Experimental result, Key study
1-Vinylhexahydro-2H-azepin-2-one	(28 d): 30 - 40 % Detected in water. Experimental result, Key study
Oxybis(methyl-2,1-ethanediyl) diacrylate	(28 d): 90 - 100 % Detected in water. Experimental result, Key study
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	(28 d): > 0 - 10 % Detected in water. Experimental result, Key study
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	> 70 % Detected in water. Experimental result, Supporting study
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	(28 d): 90 - 100 % Detected in water. Experimental result, Key study
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	(28 d): 1.8 % Detected in water. Experimental result, Key study
2,4,6-trimethylbenzophenone	No data available.
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

2-Phenoxyethyl acrylate No data available.

# SAFETY DATA SHEET

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

1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	No data available.

## 12.3 Bioaccumulative potential

**Product:** No data available.

### Components

2-Phenoxyethyl acrylate	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Cyprinus carpio, Bioconcentration Factor (BCF): 22 - 32 Aquatic sediment Experimental result, Key study
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	Bioconcentration Factor (BCF): 0.35 Aquatic sediment Estimated by calculation, Key study
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propane	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.



# SAFETY DATA SHEET

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

## Components

2-Phenoxyethyl acrylate	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	No data available.
2,4,6-trimethylbenzophenone	No data available.
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 bioaccumulative) criteria

## Components

2-Phenoxyethyl acrylate	No data available.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	No data available.
2,4,6-trimethylbenzophenone	No data available.

# SAFETY DATA SHEET

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

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

## 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.
1-Vinylhexahydro-2H-azepin-2-one	No data available.
Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
2-phenoxyethyl prop-2-enoate	No data available.
2-phenoxyethanol	No data available.
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No data available.
2-Hydroxy-2-methylpropiophenone	No data available.
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone	No data available.
2,4,6-trimethylbenzophenone	No data available.
2,6-di-tert-Butyl-p-cresol	No data available.

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

## 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 laws.

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

# 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:	III
Limited quantity	5.00L
Excepted quantity	E1
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

# SAFETY DATA SHEET

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

**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 oxide	75980-60-8

**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 oxide	75980-60-8	1.0 - 10%

# SAFETY DATA SHEET

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

**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

# SAFETY DATA SHEET

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

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	Occupational 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	Threshold Limit Value
TRGS900	Arbeitsplatzgrenswerte (DE)
TWA	Time Weighted Average
VOC	Volatile Organic Compound
vPvB	very Persistent and very Bioaccumulative substance

**Key literature references and sources for data:** Safety Data Sheet from the supplier.  
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.

# SAFETY DATA SHEET

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

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H412	Harmful to aquatic life with long lasting effects.
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**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.