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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-MG

UFI: KQ72-4009-R00V-YAF6

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

Identified uses: Printing ink

Uses advised against: For industrial use only

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

Old a take to a	0-1	HOAF Or an all a later than
Skin irritation	Category 2	H315: Causes skin irritation.
Serious eye irritation	Category 2	H319: Causes serious eye irritation.
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 - Single Exposure	Category 3	H335: May cause respiratory irritation.
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

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

1-Vinylhexahydro-2H-azepin-2-one

Isodecyl acrylate

3-methyl-1,5-pentanediyl diacrylate

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

2-phenoxyethyl prop-2-enoate



Signal Word: Danger

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

H319: Causes serious eye irritation. H317: May cause an allergic skin reaction.

H361fd: Suspected of damaging fertility. Suspected of damaging the

unborn child.

H335: May cause respiratory irritation.

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.

P337+P313: If eye irritation persists: Get medical advice/attention.

2.3 Other hazardsThis substance/mixture contains no components considered to be either

persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

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

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3.2 Mixtures

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.	
Exo-1,7,7- trimethylbicycl o[2.2.1]hept-2- yl acrylate	10 - <25%	5888-33-5	227-561-6	01- 2119957862- 25-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.	
Isodecyl acrylate	5 - <10%	1330-61-6	215-542-5	01- 2119964031- 47-XXXX;	No data available.	
3-methyl-1,5- pentanediyl diacrylate	5 - <10%	64194-22-5	264-727-7	No data available.	No data available.	
Diphenyl(2,4,6 - trimethylbenzo yl)phosphine oxide	5 - <10%	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-Propenoic acid ,1-6- hexanediyl ester, polymer with 2- aminoethanol	1 - <5%	67906-98-3		No data available.	No data available.	
2- phenoxyethan ol	1 - <3%	122-99-6	204-589-7	01- 2119488943- 21-XXXX;	No data available.	
Oxybis(methyl -2,1- ethanediyl) diacrylate	0.1 - <1%	57472-68-1	260-754-3	01- 2119484629- 21-XXXX;	No data available.	
hexamethylen e diacrylate	0.1 - <1%	13048-33-4	235-921-9	01- 2119484737- 22-XXXX;	No data available.	2/22

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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 (Chronic): 1	#

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Classification

Chemical name	Classification	Notes
2-Phenoxyethyl acrylate	Classification: Skin Sens.: 1A: H317; Repr.: 2: H361d; Aquatic	No data
	Chronic: 2: H411;	available.
Exo-1,7,7- trimethylbicyclo[2.2.1]hept- 2-yl acrylate	Classification: Eye Irrit.: 2: H319; Skin Irrit.: 2: H315; STOT SE: 3: H335; Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; STOT SE: 3: H335; Skin Sens.: 1B: H317; Aquatic Acute: 1: H400; Aquatic Chronic: 2: H411; Aquatic Chronic: 2: H411;	Note ANote A
	Specific concentration limit: Specific target organ toxicity - single exposure Category 3, >= 10 %; Specific target organ toxicity - single exposure Category 3, >= 10 %;	
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	No data available.
	Acute toxicity, dermal: LD 50: 1,700 mg/kg	
Isodecyl acrylate	Classification: STOT SE: 3: H335; Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; STOT SE: 3: H335; Skin Sens.: 1B: H317; Aquatic Chronic: 2: H411; Aquatic Chronic: 2: H411;	Note ANote A
	Specific concentration limit: Specific target organ toxicity - single exposure Category 3, >= 10 %; Specific target organ toxicity - single exposure Category 3, >= 10 %;	
3-methyl-1,5-pentanediyl diacrylate	Classification: Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; STOT SE: 3: H335; Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; Skin Sens.: 1: H317; Aquatic Chronic: 2: H411; Aquatic Chronic: 3: H412;	Note ANote A
	Specific concentration limit: Specific target organ toxicity - single exposure Category 3, >= 10 %;	
Diphenyl(2,4,6- trimethylbenzoyl)phosphin e oxide	Classification: Repr.: 2: H361f; Repr.: 2: H361f; Skin Sens.: 1B: 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-Propenoic acid ,1-6- hexanediyl ester, polymer with 2-aminoethanol	Classification: Skin Irrit.: 2: H315; Eye Irrit.: 2: H319;	No data available.

[#] This substance has workplace exposure limit(s).

^{##} This substance is listed as SVHC.

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2-phenoxyethanol	Classification: Eye Dam.: 1: H318; Acute Tox.: 4: H302; Acute Tox.: 4: H302; Eye Irrit.: 2: H319; STOT SE: 3: H335;	No data available.
	Acute toxicity, oral: LD 50: 4,070 mg/kg Acute toxicity, inhalation: LC 50: > 1,000 mg/m3 Acute toxicity, dermal: LD 50: > 2,214 mg/kg	
Oxybis(methyl-2,1- ethanediyl) diacrylate	Classification: Skin Sens.: 1: H317; Eye Dam.: 1: H318; Skin Irrit.: 2: H315;	No data available.
hexamethylene diacrylate	Classification: Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; Skin Sens.: 1: H317; Skin Sens.: 1: H317; Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; Aquatic Acute: 1: H400; Aquatic Chronic: 2: H411; Specific concentration limit: Specific target organ toxicity - single exposure Category 3, >= 10 %; Specific target organ toxicity - single exposure Category 3, >= 10 %;	Note D
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.

4.1 Description of first aid measures

Inhalation: In case of inhalation of spray mist: Move person into fresh air and keep at

rest.

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. Get medical attention.

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.

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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.

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 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. Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing.

7.2 Conditions for safe storage, including any incompatibilities:

Store locked up. Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials.

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7.3 Specific end use(s): For industrial use only

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-cresol	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	
Exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	No hazard identified
	General population	Oral	Systemic, long-term; 0.83 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 1.39 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 4.9 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 1.45 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.83 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)
Isodecyl acrylate	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Local, long-term; 37.5 mg/m3	irritation respiratory tract
3-methyl-1,5-pentanediyl diacrylate	General population	Inhalation	Systemic, long-term; 2.6 mg/m3	
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Inhalation	Systemic, long-term; 14.81 mg/m3	Repeated dose toxicity
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	General population	Dermal	Systemic, long-term; 15 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 1.5 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 42 mg/kg	Repeated dose toxicity
Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	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

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	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/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
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/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 12 mg/m3	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	Oral	Systemic, short-term; 9.23 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 10.42 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 5.7 mg/m3	
	General population	Oral	Systemic, long-term; 9.23 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 20.83 mg/kg	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	
	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
	General population	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
•	General population	Inhalation	Systemic, long-term; 7.24 mg/m3	Repeated dose toxicity
	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
nexamethylene diacrylate	General population	Eyes	Local effect;	Low hazard (no threshold derived)
	General population	Inhalation	Systemic, long-term; 7.2 mg/m3	,
	Workers	Inhalation	Systemic, long-term; 24.5 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
	General population	Dermal	Systemic, long-term; 1.66 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 2.77 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 2.1 mg/kg	
2,6-di-tert-Butyl-p-cresol	Workers	Eyes	Local effect;	No hazard identified
<u>, , , , , , , , , , , , , , , , , , , </u>	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	
	General population	Dermal	Systemic, long-term; 0.25 mg/kg	Repeated dose toxicity

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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	
Exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate	soil	0.029 mg/kg	
	Aquatic (marine water)	0 mg/l	
	Marine sediments	0.015 mg/kg	
	Aquatic (freshwater)	0.001 mg/l	
	Sewage treatment plant freshwater sediment	2 mg/l 0.145 mg/kg	
Isodecyl acrylate	Aquatic (freshwater)	84.9 µg/l	
130decyr acrylaic	Sewage treatment plant	34 mg/l	
	soil	0.064 mg/kg	
	Marine sediments	5.904 mg/kg	
	freshwater sediment	59.039 mg/kg	
	Aquatic (marine water)	8.49 µg/l	
3-methyl-1,5-pentanediyl diacrylate		0.001 mg/l	
	Aquatic (freshwater)	0.005 mg/l	
	Sewage treatment plant freshwater sediment	10 mg/l	
	Marine sediments	0.138 mg/kg 0.014 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 Soil	0.115 mg/kg 0.0557 mg/kg	
2-phenoxyethyl prop-2-enoate	Aquatic (freshwater)	2 μg/l	
2 prierioxycuryr prop 2 crioate	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	Aquatic (marine water)	0.094 mg/l	
	Sewage treatment plant	36 mg/l	
	freshwater sediment Marine sediments	7.237 mg/kg 0.724 mg/kg	
	Aquatic (freshwater)	0.943 mg/l	
	soil	1.31 mg/kg	
Oxybis(methyl-2,1-ethanediyl) diacrylate	Aquatic (freshwater)	0.003 mg/l	
	Aquatic (marine water)	0 mg/l	
	soil	0.001 mg/kg	
	Sewage treatment plant	100 mg/l	
harran ethida a P. L.	freshwater sediment	0.009 mg/kg	
hexamethylene diacrylate	Soil Marina and imports	0.094 mg/kg	<u> </u>
	Marine sediments Aquatic (marine water)	0.049 mg/kg 0.001 mg/l	
	Sewage treatment plant	2.7 mg/l	
	freshwater sediment	0.493 mg/kg	
	Aquatic (freshwater)	0.007 mg/l	
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	

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T	T	
Aquatic (marine water)	0.02 μg/l	<u> </u>
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: > 0.35 mm, Break-through time: > 240 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

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

advice from local supervisor.

Hygiene measures: 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. Observe good industrial hygiene practices. 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: purple
Odor: Sweetish

Odor Threshold:

Freezing point:

Boiling Point:

No data available.

No data available.

No data available.

not applicable

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Upper/lower limit on flammability or explosive limits

Explosive limit - upper: not applicable
Explosive limit - lower: not applicable
Flash Point: No data available.
Self Ignition Temperature: No data available.
Decomposition No data available.

Temperature:

pH: not applicable

Viscosity

Dynamic viscosity: not applicable
Kinematic viscosity: Not determined.
Flow Time: not applicable

Solubility(ies)

Solubility in Water: No data available.
Solubility (other): No data available.
Partition coefficient (n- not applicable

octanol/water):

Vapor pressure: No data available.

Relative density: 1.0439

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 not applicable

potential:

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

9.2 Other information

VOC Content: EC Directive 1999/13: 14.92 g/l ~1.49 % (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

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

Products:

SECTION 11: Toxicological information

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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 irritation.

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

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 11,959.38 mg/kg

Components:

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

Exo-1.7.7-LD 50 (Rat): 4,350 mg/kg Experimental result, Key study

trimethylbicyclo[2.2.1]hep

t-2-vl acrylate

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

Isodecyl acrylate No data available. 3-methyl-1,5-pentanediyl No data available.

diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

No data available.

No data available.

2-Propenoic acid ,1-6hexanediyl ester, polymer

with 2-aminoethanol

2-phenoxyethanol

LD 50 (Rat): 4,070 mg/kg Experimental result, Key study LD 50 (Rat): 2,740 mg/kg Experimental result, Key study LD 50 (Rat): 1,840 mg/kg Experimental result, Key study

Oxybis(methyl-2,1-LD 50 (Rat): 3,530 mg/kg Experimental result, Key study LD 50 (Rat): 2,810 mg/kg Experimental result, Key study ethanediyl) diacrylate

LD 50 (Rat): 4,270 mg/kg Experimental result, Key study

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

LD 50 (Rat): > 6,000 mg/kg Experimental result, Key study 2,6-di-tert-Butyl-p-cresol

Dermal

Product: ATEmix 12,998.53 mg/kg

Components:

2-Phenoxyethyl No data available. acrylate

Exo-1,7,7-

ept-2-yl acrylate

LD 50 (Rabbit): > 3,000 mg/kg Experimental result, Key study trimethylbicyclo[2.2.1]h

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1-Vinylhexahydro-2H-

azepin-2-one

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

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

Isodecyl acrylate 3-methyl-1,5No data available. No data available.

pentanediyl diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosp

hine oxide

2-phenoxyethyl prop-2enoate

No data available.

2-Propenoic acid ,1-6hexanediyl ester, polymer with 2aminoethanol

No data available.

2-phenoxyethanol

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

study

Oxybis(methyl-2,1ethanediyl) diacrylate

hexamethylene

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

diacrylate

LD 50 (Rabbit): 3,650 mg/kg Experimental result, Key study

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

cresol

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

Inhalation

Product: Not classified for acute toxicity based on available data.

Components:

2-Phenoxyethyl acrylate

Exo-1,7,7-

No data available. No data available.

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2H-

azepin-2-one

No data available.

Isodecyl acrylate LC 50 (Rat, 8 h)> 1.19 mg/l Vapor, Read-across from supporting

substance (structural analogue or surrogate), Key study

3-methyl-1,5-pentanediyl

diacrylate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi

ne oxide

No data available.

2-phenoxyethyl prop-2-

No data available.

enoate 2-Propenoic acid ,1-6-

No data available.

hexanediyl ester, polymer with 2-aminoethanol 2-phenoxyethanol

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

Oxybis(methyl-2,1ethanediyl) diacrylate LC 0 (Rat, 7 h)0.41 mg/l Vapor, Read-across from supporting substance (structural analogue or surrogate), Key study

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

hexamethylene diacrylate

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

LC 0 (Rat, 7 h)0.41 mg/l Vapor, Experimental result, Key study

study

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Repeated dose toxicity

Product: No data available.

Components:

2-Phenoxyethyl acrylate NOAEL (Rat(Female, Male), Oral, 43 - 53 d): 300 mg/kg NOAEL (Rat(Female, Male), Oral, 28 - 53 d): 100 mg/kg Exo-1,7,7-

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2Hazepin-2-one

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

No data available.

Isodecyl acrylate NOAEL (Rat(Female, Male), Inhalation): 0.075 mg/l NOAEL (Rat(Female, Male), Inhalation): 0.226 mg/l

NOAEL (Rat(Female, Male), Oral, 64 - 91 d): 100 mg/kg

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

3-methyl-1,5-pentanediyl No data available.

diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi ne oxide

2-phenoxyethyl prop-2-

enoate

No data available.

2-Propenoic acid ,1-6hexanediyl ester, polymer with 2-aminoethanol

2-phenoxyethanol No data available.

Oxybis(methyl-2,1ethanediyl) diacrylate

hexamethylene diacrylate

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

No data available. NOAEL (Rat(Male), Oral, 76 - 110 Weeks): 70 mg/kg

Skin Corrosion/Irritation:

Product: Causes skin irritation.

Components:

2-Phenoxyethyl Not irritant Experimental result, Supporting study acrylate

No data available.

Exo-1,7,7-

trimethylbicyclo[2.2.1]h

ept-2-yl acrylate

1-Vinylhexahydro-2Hazepin-2-one

Isodecyl acrylate 3-methyl-1,5-

pentanediyl diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosp

hine oxide

2-phenoxyethyl prop-2-

enoate

2-Propenoic acid ,1-6-

hexanediyl ester, polymer with 2-

aminoethanol 2-phenoxyethanol

Oxybis(methyl-2,1-

ethanediyl) diacrylate hexamethylene diacrylate

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

cresol

in vivo Not irritant Experimental result, Key study

in vivo Category 2 Experimental result, Key study

in vivo Not irritant Experimental result, Key study

in vivo Category 2 Experimental result, Supporting study

in vivo Not irritant Experimental result, Key study

in vivo Not irritant Experimental result, Key study

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Serious Eye Damage/Eye

Irritation: **Product:**

Causes serious eye irritation.

Components:

2-Phenoxyethyl No data available.

acrylate

Exo-1,7,7-No data available.

trimethylbicyclo[2.2.1]h

ept-2-yl acrylate

1-Vinylhexahydro-2H-No data available.

azepin-2-one

Isodecyl acrylate Mildly Irritating 3-methyl-1,5-No data available.

pentanediyl diacrylate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosp

hine oxide

2-phenoxyethyl prop-2-No data available.

enoate

2-Propenoic acid ,1-6-

No data available.

hexanediyl ester, polymer with 2aminoethanol

2-phenoxyethanol No data available.

in vivo Category 1 OECD GHS Oxybis(methyl-2,1-

ethanediyl) diacrylate

hexamethylene

diacrylate

Irritating

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

cresol

in vivo Not irritating EU

Respiratory or Skin Sensitization:

Product: May cause an allergic skin reaction.

Components:

2-Phenoxyethyl No data available.

acrylate

Exo-1,7,7-No data available.

trimethylbicyclo[2.2.1]h

ept-2-vl acrylate

1-Vinylhexahydro-2H-No data available.

azepin-2-one

Isodecyl acrylate No data available. 3-methyl-1,5-No data available.

pentanediyl diacrylate

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

trimethylbenzoyl)phosp

hine oxide

2-phenoxyethyl prop-2-

enoate

No data available.

2-Propenoic acid ,1-6hexanediyl ester, polymer with 2aminoethanol

No data available.

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

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

hexamethylene diacrylate

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

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

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

cresol

Germ Cell Mutagenicity

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

In vitro

Components:

2-Phenoxyethyl acrylate No data available. Exo-1,7,7-No data available.

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2H-No data available.

azepin-2-one

Isodecyl acrylate No data available. 3-methyl-1,5-pentanediyl No data available.

diacrylate

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

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-No data available.

enoate

2-Propenoic acid ,1-6-No data available.

hexanediyl ester, polymer with 2-aminoethanol 2-phenoxyethanol

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

ethanediyl) diacrylate

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

In vivo

Components:

2-Phenoxyethyl acrylate No data available. Exo-1,7,7-No data available.

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2H-No data available.

azepin-2-one

Isodecyl acrylate No data available. 3-methyl-1,5-pentanediyl

diacrylate

No data available.

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

ne oxide

No data available.

2-phenoxyethyl prop-2enoate

No data available.

2-Propenoic acid ,1-6hexanediyl ester, polymer with 2-aminoethanol

No data available.

2-phenoxyethanol Oxybis(methyl-2,1ethanediyl) diacrylate

No data available.

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

Carcinogenicity

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

Components:

2-Phenoxyethyl acrylate No data available. Exo-1,7,7-No data available.

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2H-No data available.

azepin-2-one

Isodecyl acrylate No data available. 3-methyl-1,5-pentanediyl No data available.

diacrylate Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

No data available. enoate

2-Propenoic acid ,1-6hexanediyl ester, polymer No data available.

with 2-aminoethanol 2-phenoxyethanol

No data available. No data available.

No data available.

Oxybis(methyl-2,1ethanediyl) diacrylate

No data available.

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

Reproductive toxicity

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

Components:

2-Phenoxyethyl acrylate No data available. Exo-1,7,7-

trimethylbicyclo[2.2.1]hep

No data available.

t-2-yl acrylate

1-Vinylhexahydro-2H-No data available.

azepin-2-one Isodecyl acrylate

No data available. No data available.

3-methyl-1,5-pentanediyl diacrylate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi ne oxide

No data available.

2-phenoxyethyl prop-2enoate

No data available.

2-Propenoic acid ,1-6-

hexanediyl ester, polymer with 2-aminoethanol 2-phenoxyethanol

No data available. No data available.

Oxybis(methyl-2,1ethanediyl) diacrylate

No data available.

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

No data available.

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Specific Target Organ Toxicity - Single Exposure

Product: May cause respiratory irritation.

Components:

2-Phenoxyethyl acrylate

Exo-1,7,7-

No data available. No data available.

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2H-

No data available.

azepin-2-one

Isodecyl acrylate 3-methyl-1,5-pentanediyl No data available. No data available.

diacrylate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

No data available.

No data available.

2-Propenoic acid ,1-6-

hexanediyl ester, polymer

with 2-aminoethanol

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

No data available.

ethanediyl) diacrylate

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

No data available. No data available.

Specific Target Organ Toxicity - Repeated Exposure

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

Components:

2-Phenoxyethyl acrylate

Exo-1,7,7-

No data available. No data available.

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2H-

No data available.

azepin-2-one

Isodecyl acrylate No data available.

3-methyl-1,5-pentanediyl diacrylate

Diphenyl(2,4,6-

No data available. No data available.

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-No data available.

enoate

2-Propenoic acid ,1-6-

hexanediyl ester, polymer

No data available.

with 2-aminoethanol 2-phenoxyethanol Oxybis(methyl-2,1-

No data available. No data available.

ethanediyl) diacrylate hexamethylene diacrylate

No data available. No data available.

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

Liver, Respiratory system

Aspiration Hazard

Target Organs:

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

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Components:

2-Phenoxyethyl acrylate

Exo-1,7,7-

No data available. No data available.

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

No data available.

1-Vinylhexahydro-2H-

azepin-2-one

Isodecyl acrylate

No data available.

3-methyl-1,5-pentanediyl diacrylate

No data available.

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

No data available.

ne oxide

No data available.

2-phenoxyethyl prop-2-

enoate 2-Propenoic acid ,1-6-

hexanediyl ester, polymer

No data available.

with 2-aminoethanol

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

ethanediyl) diacrylate

No data available.

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

No data available. No data available.

11.2 Information on health hazards

Endocrine Disruption

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

Exo-1,7,7-

No data available.

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

No data available.

1-Vinylhexahydro-2H-

No data available.

azepin-2-one

No data available.

Isodecyl acrylate 3-methyl-1,5-pentanediyl

No data available.

diacrylate

No data available.

Diphenyl(2,4,6trimethylbenzoyl)phosphi

ne oxide

No data available.

2-phenoxyethyl prop-2-

enoate

2-Propenoic acid ,1-6-

hexanediyl ester, polymer

No data available.

with 2-aminoethanol 2-phenoxyethanol

No data available.

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

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

No data available. No data available.

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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.

Exo-1,7,7- LC50 (Pisces (fish), 96 h): 0.704 mg/l (OECD Test Guideline 203)

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2Hazepin-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

Isodecyl acrylate No data available. 3-methyl-1,5-pentanediyl No data available.

diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2- No data available.

enoate

2-Propenoic acid ,1-6- No data available.

hexanediyl ester, polymer with 2-aminoethanol

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

result, Key study

No data available.

Oxybis(methyl-2,1- LC 50 (Leuciscus idus, 96 h): 2.2 - 4.64 mg/l (Static) Experimental result,

ethanediyl) diacrylate Key study

hexamethylene diacrylate 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

Exo-1,7,7- No data available.

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2H- EC 50 (Daphnia magna, 48 h): > 100 mg/l (Static) Experimental result, Key

azepin-2-one study

Isodecyl acrylate No data available. 3-methyl-1,5-pentanediyl No data available.

diacrylate

Diphenyl(2,4,6- EC 50 (Daphnia magna, 48 h): 3.53 mg/l (Static) Experimental result, Key

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trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-Propenoic acid ,1-6hexanediyl ester, polymer with 2-aminoethanol

No data available.

No data available.

LC 50 (Daphnia magna, 48 h): 488 mg/l (Static) Experimental result, 2-phenoxyethanol Supporting study

Oxybis(methyl-2,1-EC 50 (Daphnia magna, 48 h): 22.3 mg/l (Static) Experimental result, Key

ethanediyl) diacrylate

hexamethylene diacrylate 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

study

Toxicity to Aquatic Plants

Product: No data available.

Components

2-Phenoxyethyl acrylate

Exo-1,7,7-

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2H-

azepin-2-one

Isodecyl acrylate 3-methyl-1,5-pentanediyl

diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-Propenoic acid ,1-6-

hexanediyl ester, polymer

with 2-aminoethanol 2-phenoxyethanol

Oxybis(methyl-2,1ethanediyl) diacrylate

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

No data available.

No data available. No data available.

Toxicity to microorganisms

Product: No data available.

Components

2-Phenoxyethyl acrylate

Exo-1,7,7-

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2H-

azepin-2-one

Isodecyl acrylate

3-methyl-1,5-pentanediyl

diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi ne oxide

No data available. No data available.

No data available.

EC50 (Pseudomonas putida (bacteria), 0.5 h): > 10,000 mg/l (QSAR)

No data available

No data available.

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2-phenoxyethyl prop-2-

enoate

No data available.

2-Propenoic acid ,1-6-

2-phenoxyethanol

hexanediyl ester, polymer with 2-aminoethanol

No data available.

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

88/302/EEC C.11)

Oxybis(methyl-2,1-

No data available.

ethanediyl) diacrylate

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

EC50 (0.5 h): ca. 270 mg/l (OECD-Guideline No.209; 88/302/EEC C.11)

NOAEL (Pimephales promelas, 34 d): 23 mg/l (flow-through) Experimental

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. No data available.

Exo-1,7,7trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2H-

No data available.

azepin-2-one

Isodecyl acrylate

No data available. 3-methyl-1,5-pentanediyl No data available.

diacrylate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi

ne oxide

No data available. 2-phenoxyethyl prop-2-

enoate

2-Propenoic acid ,1-6-

hexanediyl ester, polymer

No data available.

with 2-aminoethanol 2-phenoxyethanol

result. Kev study

Oxybis(methyl-2,1ethanediyl) diacrylate

No data available.

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

Aquatic Invertebrates

Product: No data available.

Components

Exo-1,7,7-

2-Phenoxyethyl acrylate

No data available. No data available.

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2H-No data available.

azepin-2-one

Isodecyl acrylate No data available. 3-methyl-1,5-pentanediyl No data available.

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diacrylate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi ne oxide

2-phenoxyethyl prop-2-

enoate

No data available.

No data available.

2-Propenoic acid ,1-6-

hexanediyl ester, polymer

with 2-aminoethanol

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

hexamethylene diacrylate 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. Exo-1,7,7-No data available.

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2H-

azepin-2-one

No data available.

No data available.

No data available.

No data available.

Isodecyl acrylate No data available. 3-methyl-1,5-pentanediyl No data available.

diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

No data available. enoate

2-Propenoic acid ,1-6-

hexanediyl ester, polymer with 2-aminoethanol

2-phenoxyethanol Oxybis(methyl-2,1-

No data available. ethanedivl) diacrylate

hexamethylene diacrylate

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 Exo-1,7,7-

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2Hazepin-2-one

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

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

Isodecyl acrylate (15 d): 70 - 80 % Detected in water. Read-across from supporting substance

57 % Detected in water. Experimental result, Key study

(structural analogue or surrogate), Key study

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3-methyl-1,5-pentanediyl

diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-Propenoic acid ,1-6hexanediyl ester, polymer

with 2-aminoethanol 2-phenoxyethanol

Oxybis(methyl-2,1ethanediyl) diacrylate

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

No data available.

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

No data available.

No data available.

90 % Detected in water. Experimental result, Key study

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

(28 d): 60 - 70 % Detected in water. Experimental result, Key study (28 d): 4.5 % Detected in water. Experimental result, Key study

BOD/COD Ratio

Product No data available.

Components

2-Phenoxyethyl acrylate

Exo-1.7.7-

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2H-

azepin-2-one

Isodecyl acrylate

3-methyl-1,5-pentanediyl

diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-Propenoic acid ,1-6-

hexanediyl ester, polymer

with 2-aminoethanol

2-phenoxyethanol Oxybis(methyl-2,1ethanediyl) diacrylate

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

No data available.

No data available. No data available.

No data available. No data available.

12.3 Bioaccumulative potential

No data available. **Product:**

Components

2-Phenoxyethyl acrylate

Exo-1,7,7-

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

1-Vinylhexahydro-2Hazepin-2-one

Isodecyl acrylate 3-methyl-1,5-pentanediyl

diacrylate

No data available.

Danio rerio, Bioconcentration Factor (BCF): 37 Aquatic sediment Readacross from supporting substance (structural analogue or surrogate),

Weight of Evidence study

No data available.

No data available. No data available.

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Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

Cyprinus carpio, Bioconcentration Factor (BCF): 53 - 72 Aquatic

sediment Experimental result, Key study

2-phenoxyethyl prop-2-

enoate

No data available.

No data available.

2-Propenoic acid ,1-6hexanediyl ester, polymer

with 2-aminoethanol 2-phenoxyethanol

Bioconcentration Factor (BCF): 0.35 Aquatic sediment Estimated by

calculation, Key study

Oxybis(methyl-2,1-

ethanediyl) diacrylate hexamethylene diacrylate

No data available.

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.

Components

2-Phenoxyethyl acrylate

Exo-1.7.7-

No data available. No data available.

trimethylbicyclo[2.2.1]hept-

2-yl acrylate

1-Vinylhexahydro-2H-

azepin-2-one

No data available. No data available.

No data available.

No data available.

Isodecyl acrylate

3-methyl-1,5-pentanediyl diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphine

oxide

2-phenoxyethyl prop-2-

enoate

2-Propenoic acid, 1-6hexanediyl ester, polymer

with 2-aminoethanol

2-phenoxyethanol Oxybis(methyl-2,1ethanedivl) diacrylate

hexamethylene diacrylate 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.

12.5 Results of PBT and vPvB assessment

Product: This substance/mixture contains no components considered to be either

persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

Components

2-Phenoxyethyl

No data available.

No data available.

acrylate Exo-1,7,7-

trimethylbicyclo[2.2.

1]hept-2-yl acrylate

1-Vinylhexahydro-

No data available.

2H-azepin-2-one

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Isodecyl acrylate

No data available.

3-methyl-1,5pentanediyl

No data available.

diacrylate

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

trimethylbenzoyl)pho

sphine oxide

No data available.

2-phenoxyethyl prop-2-enoate

2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2No data available.

aminoethanol

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

ethanedivl) diacrylate

hexamethylene

No data available.

diacrylate 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. Exo-1,7,7-No data available.

trimethylbicyclo[2.2.1]hept-2-

yl acrylate

1-Vinylhexahydro-2H-No data available.

azepin-2-one

Isodecyl acrylate No data available. 3-methyl-1,5-pentanediyl No data available.

diacrylate

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

trimethylbenzoyl)phosphine

oxide

2-phenoxyethyl prop-2-No data available.

enoate

2-Propenoic acid ,1-6-No data available.

hexanediyl ester, polymer with 2-aminoethanol

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

ethanediyl) diacrylate

hexamethylene diacrylate 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

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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

ADR

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

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

RID

14.1 UN number or ID 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 or ID 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

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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 or ID 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

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:

Chemical name	CAS-No.	Concentration
Diphenyl(2,4,6-trimethylbenzoyl)phosphine	75980-60-8	1.0 - 10%
oxide		
PIGMENT RED 122	980-26-7	1.0 - 10%
2-phenoxyethanol	122-99-6	1.0 - 10%
caprolactam	105-60-2	0.1 - 1.0%
hexamethylene diacrylate	13048-33-4	0.1 - 1.0%
Mequinol	150-76-5	- <0.1%

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:

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Chemical name	CAS-No.
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
Diphenyl(2,4,6-trimethylbenzoyl)phosphine	75980-60-8	1.0 - 10%
oxide		

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: none

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

Chemical name	CAS-No.	Concentration
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	5888-33-5	20 - 30%
acrylate		
Isodecyl acrylate	1330-61-6	1.0 - 10%
3-methyl-1,5-pentanediyl diacrylate	64194-22-5	1.0 - 10%
Diphenyl(2,4,6-trimethylbenzoyl)phosphine	75980-60-8	1.0 - 10%
oxide		
2-phenoxyethanol	122-99-6	1.0 - 10%
caprolactam	105-60-2	0.1 - 1.0%
hexamethylene diacrylate	13048-33-4	0.1 - 1.0%
Mequinol	150-76-5	0 - <0.1%

15.2 Chemical safety assessment:

Chemical Safety Assessment has been carried out.

SECTION 16: Other information

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Abbreviations and acronyms:

b <u>breviations ar</u>	
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
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

Notes:

Exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate	Note A	Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as 'compounds' or 'salts'. In this case, the supplier is required to state on the label the correct name, due account being taken to Paragraph 1.1.1.4.
	Note A	Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as

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		'compounds' or 'salts'. In this case, the supplier is required to state on the label the correct name, due account being taken to Paragraph 1.1.1.4.
Isodecyl acrylate	Note A	Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as 'compounds' or 'salts'. In this case, the supplier is required to state on the label the correct name, due account being taken to Paragraph 1.1.1.4.
	Note A	Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as 'compounds' or 'salts'. In this case, the supplier is required to state on the label the correct name, due account being taken to Paragraph 1.1.1.4.
3-methyl-1,5-pentanediyl diacrylate	Note A	Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as 'compounds' or 'salts'. In this case, the supplier is required to state on the label the correct name, due account being taken to Paragraph 1.1.1.4.
	Note A	Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as 'compounds' or 'salts'. In this case, the supplier is required to state on the label the correct name, due account being taken to Paragraph 1.1.1.4.
hexamethylene diacrylate	Note D	Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

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 irritation, Category 2	Calculation method
Skin sensitizer, Category 1	Calculation method
Toxic to reproduction, Category 2	Calculation method
Specific Target Organ Toxicity - Single Exposure, Category 3	Calculation method

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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

Harmful if swallowed.
Harmful in contact with skin.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Causes serious eye irritation.
May cause respiratory irritation.
Suspected of damaging the unborn child.
Suspected of damaging fertility.
Suspected of damaging fertility. Suspected of
damaging the unborn child.
Causes damage to organs through prolonged or
repeated exposure.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
Toxic to aquatic life with long lasting effects.
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