

Version: 1.0

Last revised date: 07.01.2023 Revision Date: 07.01.2023 Issue Date: 07.01.2023

SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

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

1.1 Product identifier

Product name: STRATA SERIES MAGENTA UV INK

Other means of identification:

UFI: RNS1-30T6-H00Q-GAVM

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

Supplier

LogoJET Inc.
301 Prides Crossing
Lafayette, LA
70508
USA

E-mail: supplies@logojet.com

Telephone: +1 337-330-8471

1.4 Emergency telephone number:

Emergency telephone number (Chemtrec): 1-800-424-9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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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 1B	H360Df: May damage the unborn child. Suspected of damaging fertility.
Specific Target Organ Toxicity -	Category 3	H335: May cause respiratory irritation.

Single Exposure

Specific Target Organ Toxicity -

Specific Target Organ Toxicity
Repeated Exposure

Category 2 (Liver, Respiratory

system)

H373: May cause damage to organs through

er, prolonged or repeated exposure.

Environmental Hazards

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Chronic hazards to the aquatic environment

Category 2

H411: Toxic to aquatic life with long lasting effects.

2.2 Label Elements

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

Tetrahydrofurfuryl acrylate 2-Phenoxyethyl acrylate

Oxybis(methyl-2,1-ethanediyl) diacrylate

hexamethylene diacrylate; hexane-1,6-diol diacrylate



Signal Word: Danger

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

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

H360Df: May damage the unborn child. Suspected of damaging

fertility.

H335: May cause respiratory irritation.

H373: May cause 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.

Remarks Restricted to professional users.

2.3 Other hazards Results of PBT and vPvB assessment

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.

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
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.	
Tetrahydrofurf uryl acrylate	10 - <20%	2399-48-6	219-268-7	01- 2120738396- 46-XXXX;	No data available.	
2- Phenoxyethyl acrylate	10 - <20%	48145-04-6	256-360-6	01- 2119980532- 35-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.	
1- Vinylhexahydr o-2H-azepin- 2-one	5 - <10%	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.	
phenyl bis(2,4,6- trimethylbenzo yl)-phosphine oxide	1 - <5%	162881-26-7	423-340-5	01- 2119489401- 38-0001;	No data available.	
2-Isopropyl- 9H- thioxanthen-9- one	1 - <3%	5495-84-1	226-827-9	01- 2120769513- 49-XXXX;	No data available.	
Diphenyl(2,4,6 - trimethylbenzo yl)phosphine oxide	1 - <3%	75980-60-8	278-355-8	01- 2119972295- 29-XXXX;	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- phenoxyethyl prop-2-enoate	1 - <2.5%	56641-05-5	500-133-9	01- 2120752382- 57-XXXX;	No data available.	
Tetrahydrofurf	0.3 - <1%	97-99-4	202-625-6	01-	No data	

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uryl alcohol				2119968921- 26-XXXX;	available.	
hexamethylen e diacrylate; hexane-1,6- diol diacrylate	0.1 - <1%	13048-33-4	235-921-9	01- 2119484737- 22-XXXX;	No data available.	
hydroquinone	0.01 - <0.1%	123-31-9	204-617-8	01- 2119524016- 51-XXXX;	Aquatic Toxicity (Acute): 10; Aquatic Toxicity (Chronic): Aquatic Toxicity (Acute): 10; Aquatic Toxicity (Acute): 10; Aquatic Toxicity (Chronic):	#

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

Classification

Chemical name	Classification	Notes
Exo-1,7,7-	Classification: Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; STOT	No data
trimethylbicyclo[2.2.1]hept-	SE: 3: H335; Skin Irrit.: 2: H315; Skin Sens.: 1A: H317; Eye	available.
2-yl acrylate	Irrit.: 2: H319; STOT SE: 3: H335; Aquatic Chronic: 2: H411;	
	Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410;	
Tetrahydrofurfuryl acrylate	Classification: Acute Tox.: 4: H302; Skin Corr.: 1C: H314; Skin	No data
	Sens.: 1B: H317; Eye Dam.: 1: H318; Repr.: 1B: H360Df;	available.
	Aquatic Chronic: 2: H411;	
2-Phenoxyethyl acrylate	Classification: Skin Sens.: 1A: H317; Repr.: 2: H361d; Aquatic	No data
	Chronic: 2: H411;	available.
Oxybis(methyl-2,1-	Classification: Skin Sens.: 1: H317; Eye Dam.: 1: H318; Skin	No data
ethanediyl) diacrylate	Irrit.: 2: H315;	available.
1-Vinylhexahydro-2H-	Classification: Acute Tox.: 4: H302; Eye Irrit.: 2A: H319; Skin	No data
azepin-2-one	Sens.: 1B: H317; STOT RE: 1: H372; Acute Tox.: 4: H312;	available.
Isodecyl acrylate	Classification: Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; STOT	Note
	SE: 3: H335; STOT SE: 3: H335; Eye Irrit.: 2: H319; Skin Irrit.:	ANote A
	2: H315; Skin Sens.: 1B: H317; Aquatic Chronic: 2: H411;	
	Aquatic Chronic: 2: H411;	
phenyl bis(2,4,6-	Classification: Skin Sens.: 1A: H317; Skin Sens.: 1A: H317;	No data
trimethylbenzoyl)-	Aquatic Chronic: 4: H413; Aquatic Chronic: 4: H413;	available.
phosphine oxide		
2-Isopropyl-9H-	Classification: Repr.: 2: H361f; Aquatic Acute: 1: H400;	No data
thioxanthen-9-one	Aquatic Chronic: 1: H410;	available.
Diphenyl(2,4,6-	Classification: Repr.: 2: H361f; Repr.: 2: H361f; Skin Sens.:	No data
trimethylbenzoyl)phosphin	1B: H317; Aquatic Chronic: 2: H411;	available.
e oxide		

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

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



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2-Propenoic acid ,1-6- hexanediyl ester, polymer with 2-aminoethanol	Classification: Skin Irrit.: 2: H315; Eye Irrit.: 2: H319;	No data available.
2-phenoxyethyl prop-2- enoate	Classification: Skin Sens.: 1A: H317; Aquatic Chronic: 2: H411;	No data available.
Tetrahydrofurfuryl alcohol	Classification: Repr.: 1B: H360Df; Eye Irrit.: 2: H319; Repr.: 1B: H360Df; Eye Irrit.: 2: H319;	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	Classification: Skin Sens.: 1: H317; Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; Eye Irrit.: 2: H319; Skin Sens.: 1: H317; Skin Irrit.: 2: H315; Aquatic Acute: 1: H400; Aquatic Chronic: 2: H411;	Note D
hydroquinone	Classification: Carc.: 2: H351; Muta.: 2: H341; Eye Dam.: 1: H318; Skin Sens.: 1B: H317; Acute Tox.: 4: H302; Carc.: 2: H351; Eye Dam.: 1: H318; Acute Tox.: 4: H302; Skin Sens.: 1: H317; Muta.: 2: H341; Aquatic Acute: 1: H400; 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

4.1 Description of necessary first-aid measures

General information: Get medical attention if symptoms occur.

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. Call a physician or poison control center

immediately.

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

Personal Protection for First-aid Responders:

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

See Section 8 of the SDS for Personal Protective Equipment.

4.2 Most important symptoms and effects, both acute and delayed

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

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

4.3 Indication of immediate medical attention and special treatment needed

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

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

media:

During fire, gases hazardous to health may be formed.

5.2 Special hazards arising from the substance or mixture:

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. Avoid breathing dust/fume/gas/mist/vapors/spray. Provide adequate ventilation.

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

Technical measures (e.g. Good general ventilation (typically 10 air changes per hour) should be used.

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Local and general ventilation):

Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc. Provide easy access to water supply and eye wash facilities.

Safe handling advice:

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.

Contact avoidance measures:

Contact with incompatible materials.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions: Store locked up. Store in tightly closed original container in a dry, cool and

well-ventilated place. Store away from incompatible materials.

Safe packaging materials:

Suitable materials: Keep in original container.

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
hydroquinone	TWA	0.5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

DNEL-Values

Critical component	Туре	Route of Exposure	Health Warnings	Remarks
Exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate	Workers	Eyes	Local effect;	No hazard identified
	General population	Dermal	Systemic, long-term; 0.83 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 1.45 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 4.9 mg/m3	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 1.39 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.83 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
Tetrahydrofurfuryl acrylate	General population	Eyes	Local effect;	Medium hazard (no threshold derived)

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	an	nd UK SI 2020/1567		
	General population	Inhalation	Systemic, long-term; 0.3 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 1.73 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Dermal	Systemic, long-term; 4.9 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.18 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 1.75 mg/kg	Repeated dose toxicity
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	Dermal	Systemic, long-term; 3.5 mg/kg	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
ĺ	General population	Eyes	Local effect;	No hazard identified
Oxybis(methyl-2,1-ethanediyl) diacrylate	Workers	Inhalation	Systemic, long-term; 24.48 mg/m3	Repeated dose toxicity
unao y ma	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
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
phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide	General population	Inhalation	Systemic, long-term; 1.93 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 2.9 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 11.75 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
	General population	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Systemic, long-term; 21 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 1.67 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 1.67 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, short-term; 1.67 ng/kg	
	General population	Inhalation	Systemic, long-term; 2.61 mg/m3	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 3.33 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, short-term; 2.92 mg/m3	
	General population	Inhalation	Systemic, long-term; 3.92 mg/m3	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 4.67 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 4.2	Repeated dose toxicity
	<u> </u>		mg/kg Systemic, long-term;	

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General population Workers Inhalation Systemic, short-term; 1.6.4 fm g/m3 Workers Inhalation General population Inhalation Systemic, short-term; 1.6.4 fm g/m3 Systemic, short-term; 1.6.7 fm g/m3 Systemic, short-term; 1.6.8 fm g/m3 Systemic, short-term; 1.6.9 fm g/m3 Systemic, short-term; 1.6.1 fm g/m3 Systemic, short-term; 1.6.1 fm g/m3 Systemic, short-term; 1.6.1 fm g/m3 Systemic, short-term; 1.6.2 fm g/m3 Systemic, short		ar	nd UK SI 2020/1567	,	
General population General population Workers Inhalation Systemic, Long-term; Repeated dose toxicity Workers Inhalation Systemic, Stort-term; Repeated dose toxicity Workers Inhalation Systemic, Stort-term; Repeated dose toxicity Workers Inhalation Systemic, Stort-term; Repeated dose toxicity Workers Inhalation Systemic, Long-term; 15. Repeated dose toxicity Myrkers General population General population General population General population Inhalation Systemic, Long-term; 15. Repeated dose toxicity Myrkers General population General population Inhalation Systemic, Long-term; 15. Repeated dose toxicity Myrkers General population General population Inhalation Systemic, Long-term; 15. Repeated dose toxicity Myrkers General population General population Dermal Systemic, Stort-term; Systemic, Stort-term; Systemic, Stort-term; Workers Dermal Workers Dermal Workers Dermal Systemic, Long-term; 15. Repeated dose toxicity Workers Dermal Workers Dermal Workers Dermal Systemic, Stort-term; Systemic, Stort-term; Systemic, Stort-term; Workers Workers Dermal Workers Dermal Systemic, Stort-term; Workers Workers Dermal Workers Dermal Systemic, Long-term; 4.67 mg/kg Workers Workers Dermal Systemic, Long-term; Workers Dermal Workers Dermal Systemic, Stort-term; Workers Dermal Workers Dermal Systemic, Stort-term; Workers Systemic, Stort-term; Workers Dermal Workers Dermal Systemic, Stort-term; Workers Dermal Workers Dermal Systemic, Long-term; O.42 mg/kg Terratogenicity Workers Dermal Systemic, Long-term; Workers Dermal Systemic, Long-term; No hazard identified Systemic, Long-term; Repeated dose toxicity Workers Workers Dermal Workers Dermal Workers Dermal Systemic, Long-term; Repeated dose toxicity Workers Dermal Systemic, Long-term; Repeated dose toxicity Wor		General population	Dermal		
General population Inhalation Systemic, Inquistries, Repeated dose toxicity 2.92 mg/m3 Workers Inhalation Systemic, short-term; A mg/m3 Workers Inhalation Systemic, Inquistries, Repeated dose toxicity Repeated Repeat		Workers	Inhalation	Systemic, short-term;	Repeated dose toxicity
Workers Inhalation Systemic, short-term; 7.8.4 mg/m3 Repeated dose toxicity 16.4.6 mg/m3 Repeated dose toxicity Repeated Repeated dose toxicity Repeated Repeated dose toxicity Repeated Repeat		General population	Inhalation	Systemic, long-term;	Repeated dose toxicity
Workers		Workers	Inhalation	Systemic, short-term;	
General population Inhalation Systemic, short-term; 1,33 mg/m3 Repeated dose toxicity 1,33 mg/m3 Repeated dose toxicity 1,44 mg/m3 1,44 mg/m3 Repeated dose toxicity 1,44 mg/m3		Workers	Inhalation	Systemic, long-term;	Repeated dose toxicity
Morkers		General population	Inhalation	Systemic, short-term;	
General population Oral Systemic, long-term; 1.5 Repeated dose toxicity mg/kg Systemic, long-term; 3 Repeated dose toxicity mg/kg Systemic, long-term; 5.2 Repeated dose toxicity mg/kg Systemic, short-term; 5.2 Repeated dose toxicity mg/kg Systemic, short-term; 5.2 Repeated dose toxicity Systemic, short-term; 5.2 Repeated dose toxicity Systemic, short-term; 1.5 Repeated dose toxicity Systemic, short-term; 1.5 Repeated dose toxicity mg/kg Systemic, short-term; 1.5 Repeated dose toxicity Repeated dose toxicity Systemic, short-term; 1.5 Repeated dose toxicity Repeated Repeated dose toxicity Repeated Re		Workers	Inhalation	Systemic, long-term;	Repeated dose toxicity
Workers Dermal Systemic, long-term; 3 Repeated dose toxicity mg/kg Systemic, long-term; 5.2 Repeated dose toxicity mg/mg/m3 Systemic, short-term; 3.3.2 mg/kg Systemic, short-term; 4.67 mg/kg Systemic, short-t		General population	Oral	Systemic, long-term; 1.5	Repeated dose toxicity
General population Inhalation Systemic, long-term; 5.2 Repeated dose toxicity mg/m3 Systemic, short-term; 3.32 mg/kg Systemic, short-term; 4.67 mg/kg Systemic, short-term; 5.27		Workers	Dermal	Systemic, long-term; 3	Repeated dose toxicity
General population Inhalation Systemic, short-term; 3.9.2 mg/m3 Systemic, short-term; 3.9.2 mg/kg Systemic, short-term; 4.67 mg/kg Systemic, short-term; 3.33 mg/kg Systemic, short-term; 4.67 mg/kg Systemic, short-term; 6.67 mg/kg Systemic, sho		General population	Inhalation	Systemic, long-term; 5.2	Repeated dose toxicity
General population Dermal Systemic, long-term; 1.5 Repeated dose toxicity mg/kg		General population	Inhalation		Repeated dose toxicity
Morkers Dermal Systemic, short-term; 4.67 mg/kg Systemic, short-term; 2-Isopropyl-9H-thioxanthen-9-			Dermal	3.92 mg/m3	
Workers Dermal Systemic, short-term; 3.33 mg/kg Dermal Systemic, short-term; 3.33 mg/kg Systemic, long-term; developmental toxicity / teratogenicity Dermal Systemic, long-term; developmental toxicity / teratogenicity Morkers Dermal Systemic, long-term; developmental toxicity / teratogenicity Morkers Dermal Systemic, long-term; developmental toxicity / teratogenicity Morkers Eyes Local effect; No hazard identified Diphenyl(2.4.6-trimethylbenzoyl)phosphine Systemic, long-term; No hazard identified Systemic, long-term; Repeated dose toxicity O.233 mg/kg Systemic, long-term; Repeated dose toxicity O.232 mg/m3 Systemic, long-term; No hazard identified Systemic, long-term; Repeated dose toxicity O.245 mg/m3 O.245 mg/				mg/kg	
3.33 mg/kg Systemic, long-term; developmental toxicity / teratogenicity				4.67 mg/kg	
O.73 mg/m3 teratogenicity	2 Japaneaud Old thiovanthan O			3.33 mg/kg	dovolopmental toxicity /
Workers Eyes Local effect; No hazard identified				0.73 mg/m3	teratogenicity
General population Eyes Local effect; No hazard identified				0.42 mg/kg	teratogenicity
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Workers Inhalation Systemic, long-term; O.233 mg/kg Repeated dose toxicity o.822 mg/m3 Repeated dose toxicity o.822 mg/m3 Local effect; No hazard identified Repeated dose toxicity o.145 mg/m3 Workers Eyes Local effect; No hazard identified Repeated dose toxicity o.145 mg/m3 Repeated dose toxicity o.145 mg/m3 Repeated dose toxicity o.0833 mg/kg Repeated dose toxicity o.0833				,	
trimethylbenzoyl)phosphine oxide Workers Inhalation General population General population General population General population General population General population Workers Eyes Local effect; No hazard identified Systemic, long-term; 0.145 mg/m3 Local effect; No hazard identified General population Dermal Systemic, long-term; 0.0833 mg/kg General population General population Oral Systemic, long-term; 0.0833 mg/kg Composition General population Eyes Local effect; No hazard identified Workers Eyes Local effect; No hazard identified Workers Inhalation Dermal Systemic, long-term; 97 mg/m3 Workers Dermal Workers Inhalation Dermal Systemic, long-term; 3.5 Repeated dose toxicity mg/m3 Systemic, long-term; 3.5 Repeated dose toxicity mg/m3 Tetrahydrofurfuryl alcohol Workers Inhalation General population General population Inhalation Systemic, long-term; 1.4 Repeated dose toxicity mg/m3 Workers Fyes Local effect; No hazard identified Repeated dose toxicity mg/m3 Repeated dose toxicity mg/m3 Tetrahydrofurfuryl alcohol Workers Inhalation Systemic, long-term; 1.4 Repeated dose toxicity mg/m3 Workers Eyes Local effect; Low hazard (no threshold derived) General population Dermal Systemic, long-term; Repeated dose toxicity 0.175 mg/kg General population General population Dermal Systemic, long-term; 0.5 Repeated dose toxicity mg/mg/s General population Dermal Systemic, long-term; 0.5 Repeated dose toxicity 0.175 mg/kg General population Eyes Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 0.5 Repeated dose toxicity 0.175 mg/kg General population Fystemic, long-term; 0.5 Repeated dose toxicity 0.175 mg/kg General population Repeated dose toxicity 0.175 mg/kg General population Repeated dose toxicity 0.175 mg/kg R		General population	Eyes		No hazard identified
O.822 mg/m3	trimethylbenzoyl)phosphine	Workers	Dermal		Repeated dose toxicity
General population Eyes Local effect; No hazard identified General population Inhalation Systemic, long-term; O.145 mg/m3 Repeated dose toxicity O.0833 mg/kg		Workers	Inhalation		Repeated dose toxicity
General population		General population	Eves		No hazard identified
Workers Eyes Local effect; No hazard identified				Systemic, long-term;	
General population General population General population Oral Systemic, long-term; 0.0833 mg/kg Systemic, long-term; 0.094 Systemic, long-term; 0.25 mg/m3 Systemic, long-term; 0.25 mg/m3 Systemic, long-term; 0.25 mg/m3 Systemic, long-term; 0.275 mg/kg Systemic, long-term; 0.285 mg/m3 Systemic, long-term; 0.295 mg/m3 Systemic, long-term; 0.295 mg/kg Systemic, long-term; 0.295 Repeated dose toxicity Systemic, long-ter		Workers	Eves	Local effect:	No hazard identified
General population General population General population Eyes Local effect; No hazard identified Workers Eyes Local effect; No hazard identified Workers Inhalation Workers Dermal Workers Inhalation Systemic, long-term; 97 mg/m3 Workers Inhalation Workers Inhalation Workers Inhalation Workers Inhalation Tetrahydrofurfuryl alcohol Workers Inhalation General population Dermal Systemic, long-term; 0.5 mg/kg General population Systemic, long-term; 0.5 mg/kg General population General population Dermal Systemic, long-term; 0.5 mg/kg General population Eyes Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 0.5 mg/kg General population Systemic, long-term; 0.5 mg/kg Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 1 Repeated dose toxicity				Systemic, long-term;	
2-phenoxyethyl prop-2-enoate General population Eyes Local effect; No hazard identified Workers Eyes Local, long-term; 97 mg/m3 Repeated dose toxicity mg/m3 Workers Inhalation Systemic, long-term; 1.4 mg/m3 Tetrahydrofurfuryl alcohol Workers Inhalation Systemic, long-term; 1.4 mg/m3 General population Inhalation Systemic, long-term; 1.4 Repeated dose toxicity mg/m3 Workers Inhalation Systemic, long-term; 1.4 Repeated dose toxicity mg/m3 General population Inhalation Systemic, long-term; 0.25 mg/m3 Workers Eyes Local effect; Low hazard (no threshold derived) General population Oral Systemic, long-term; 0.5 mg/kg General population Dermal Systemic, long-term; 0.5 mg/kg General population Dermal Systemic, long-term; 0.5 mg/kg General population Eyes Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 0.5 mg/kg Local effect; Low hazard (no threshold derived) Repeated dose toxicity Mazard (no threshold derived) Repeated dose toxicity Systemic, long-term; 0.5 mg/kg Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 1 Repeated dose toxicity		General population	Oral	Systemic, long-term;	Repeated dose toxicity
Workers Eyes Local effect; No hazard identified Workers Inhalation Local, long-term; 97 Repeated dose toxicity mg/m3 Workers Dermal Systemic, long-term; 3.5 Repeated dose toxicity mg/kg Workers Inhalation Systemic, long-term; 12 Repeated dose toxicity mg/m3 Tetrahydrofurfuryl alcohol Workers Inhalation Systemic, long-term; 1.4 Repeated dose toxicity mg/m3 General population Inhalation Systemic, long-term; 0.25 mg/m3 Workers Eyes Local effect; Low hazard (no threshold derived) General population Oral Systemic, long-term; 0.5 mg/kg General population Dermal Systemic, long-term; 0.5 mg/kg General population Dermal Systemic, long-term; 0.5 mg/kg General population Dermal Systemic, long-term; 0.5 mg/kg Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 1.7 Repeated dose toxicity Repeated dose toxicity mg/kg Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 1.7 Repeated dose toxicity	2-phenoxyethyl prop-2-enoate	General population	Eves	<u> </u>	No hazard identified
Workers Inhalation Local, long-term; 97 mg/m3 Workers Dermal Systemic, long-term; 3.5 Repeated dose toxicity mg/kg Workers Inhalation Systemic, long-term; 12 Repeated dose toxicity mg/m3 Tetrahydrofurfuryl alcohol Workers Inhalation Systemic, long-term; 1.4 Repeated dose toxicity mg/m3 General population Inhalation Systemic, long-term; Repeated dose toxicity mg/m3 Workers Eyes Local effect; Low hazard (no threshold derived) General population Oral Systemic, long-term; Repeated dose toxicity 0.175 mg/kg General population Dermal Systemic, long-term; 0.5 Repeated dose toxicity mg/kg General population Eyes Local effect; Low hazard (no threshold derived) Systemic, long-term; 0.5 Repeated dose toxicity mg/kg General population Eyes Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 1 Repeated dose toxicity	z prieriony etiny: prop z erioate		-		
Workers Dermal Systemic, long-term; 3.5 Repeated dose toxicity mg/kg Workers Inhalation Systemic, long-term; 12 Repeated dose toxicity mg/m3 Tetrahydrofurfuryl alcohol Workers Inhalation Systemic, long-term; 1.4 Repeated dose toxicity mg/m3 General population Inhalation Systemic, long-term; 0.25 mg/m3 Workers Eyes Local effect; Low hazard (no threshold derived) General population Oral Systemic, long-term; 0.5 Repeated dose toxicity 0.175 mg/kg General population Dermal Systemic, long-term; 0.5 Repeated dose toxicity mg/kg General population Eyes Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 0.5 Repeated dose toxicity mg/kg General population Eyes Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 1 Repeated dose toxicity				Local, long-term; 97	
Workers Inhalation Systemic, long-term; 12 Repeated dose toxicity mg/m3 Tetrahydrofurfuryl alcohol Workers Inhalation Systemic, long-term; 1.4 Repeated dose toxicity mg/m3 General population Inhalation Systemic, long-term; 0.25 mg/m3 Workers Eyes Local effect; Low hazard (no threshold derived) General population Oral Systemic, long-term; 0.175 mg/kg General population Dermal Systemic, long-term; 0.5 Repeated dose toxicity mg/kg General population Eyes Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 0.5 Repeated dose toxicity mg/kg Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 1 Repeated dose toxicity		Workers	Dermal	Systemic, long-term; 3.5	Repeated dose toxicity
Tetrahydrofurfuryl alcohol Workers Inhalation Systemic, long-term; 1.4 Repeated dose toxicity mg/m3 General population Workers Eyes Local effect; General population General population Oral Systemic, long-term; 0.25 mg/m3 Low hazard (no threshold derived) General population Oral Systemic, long-term; 0.175 mg/kg General population Dermal Systemic, long-term; 0.5 Repeated dose toxicity mg/kg General population General population Eyes Local effect; Low hazard (no threshold derived) Repeated dose toxicity mg/kg General population Systemic, long-term; 0.5 Repeated dose toxicity mg/kg General population Eyes Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 1 Repeated dose toxicity		Workers	Inhalation	Systemic, long-term; 12	Repeated dose toxicity
General population Inhalation Systemic, long-term; 0.25 mg/m3 Repeated dose toxicity 0.25 mg/m3 Workers Eyes Local effect; Low hazard (no threshold derived) General population Oral Systemic, long-term; 0.175 mg/kg General population Dermal Systemic, long-term; 0.5 Repeated dose toxicity mg/kg General population Eyes Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 1 Repeated dose toxicity	Tetrahydrofurfuryl alcohol	Workers	Inhalation	Systemic, long-term; 1.4	Repeated dose toxicity
Workers Eyes Local effect; Low hazard (no threshold derived) General population Oral Systemic, long-term; 0.175 mg/kg General population Dermal Systemic, long-term; 0.5 Repeated dose toxicity mg/kg General population Eyes Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 1 Repeated dose toxicity		General population	Inhalation	Systemic, long-term;	Repeated dose toxicity
General population Oral Systemic, long-term; 0.175 mg/kg General population Dermal Systemic, long-term; 0.5 Repeated dose toxicity mg/kg General population Eyes Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 1 Repeated dose toxicity		Workers	Eyes		`
General population General population General population General population Eyes Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 0.5 Repeated dose toxicity		General population	Oral		,
General population Eyes Local effect; Low hazard (no threshold derived) Workers Dermal Systemic, long-term; 1 Repeated dose toxicity		General population	Dermal	Systemic, long-term; 0.5	Repeated dose toxicity
Workers Dermal Systemic, long-term; 1 Repeated dose toxicity		General population	Eyes	Local effect;	
		Workers	Dermal	Systemic, long-term; 1 mg/kg	

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hexamethylene diacrylate; hexane-1,6-diol diacrylate	General population	Eyes	Local effect;	Low hazard (no threshold derived)
	General population	Inhalation	Systemic, long-term; 7.2 mg/m3	Repeated dose toxicity
	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		Repeated dose toxicity
hydroquinone	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	General population	Inhalation	Systemic, long-term; 1.05 mg/m3	Carcinogenicity
	Workers	Dermal	Systemic, long-term; 3.33 mg/kg	Carcinogenicity
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Inhalation	Systemic, long-term; 2.1 mg/m3	Carcinogenicity
	General population	Oral	Systemic, long-term; 0.6 mg/kg	Carcinogenicity
	General population	Dermal	Systemic, long-term; 1.66 mg/kg	Carcinogenicity

PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
Exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate	soil	0.029 mg/kg	
•	freshwater sediment	0.145 mg/kg	
	Sewage treatment plant	2 mg/l	
	Aquatic (freshwater)	0.001 mg/l	
	Marine sediments	0.015 mg/kg	
	Aquatic (marine water)	0 mg/l	
Tetrahydrofurfuryl acrylate	soil	0.002 mg/kg	
, ,	freshwater sediment	0.021 mg/kg	
	Aquatic (marine water)	0.392 μg/l	
	Sewage treatment plant	2.637 mg/l	
	Marine sediments	0.002 mg/kg	
	Aquatic (freshwater)	3.92 µg/l	
2-Phenoxyethyl acrylate	Sewage treatment plant	1.77 mg/l	
	Aquatic (marine water)	0.2 μg/l	
	freshwater sediment	0.02 mg/kg	
	Marine sediments	0.002 mg/kg	
	Aquatic (freshwater)	2 μg/l	
Oxybis(methyl-2,1-ethanediyl) diacrylate		0.003 mg/l	
	Aquatic (marine water)	0 mg/l	
	soil	0.001 mg/kg	
	Sewage treatment plant	100 mg/l	
	freshwater sediment	0.009 mg/kg	
Isodecyl acrylate	soil	0.064 mg/kg	
,	Marine sediments	5.904 mg/kg	
	freshwater sediment	59.039 mg/kg	
	Sewage treatment plant	34 mg/l	
	Aquatic (marine water)	8.49 µg/l	
	Aquatic (freshwater)	84.9 µg/l	
phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide	soil	20 mg/kg	
	Aquatic (freshwater)	0.8 μg/l	
		1 μg/l	
	Aquatic (marine water)	1 µg/l	

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	and Ur	SI 2020/1567	
	Marine sediments	0.712 mg/kg	
	Sewage treatment plant	1 mg/l	
	Aquatic (marine water)	9 ng/l	
	freshwater sediment	0.064 mg/kg	
		0.712 mg/kg	
	Marine sediments	0.0064 mg/kg	
	Aquatic (freshwater)	90 ng/l	
	soil	0.0128 mg/kg	
2-Isopropyl-9H-thioxanthen-9-	Aquatic (marine water) freshwater sediment	0.8 μg/l 0.013 mg/kg	
	neshwater sediment	0.013 Hig/kg	
one	Carrie no transfer ant plant	400 //	
	Sewage treatment plant	100 mg/l	
	Aquatic (freshwater)	0 mg/l	
	Marine sediments	0.001 mg/kg	
	Aquatic (marine water)	0 mg/l	
	soil	0.003 mg/kg	
	Predator	0.333 mg/kg	Oral
Diphenyl(2,4,6-	Marine sediments	0.0115 mg/kg	
trimethylbenzoyl)phosphine oxide			
	Fresh water	0.00353 mg/l	
	Aquatic (marine water)	0.14 μg/l	
	Marine water	0.00353 mg/l	
	Aquatic (freshwater)	1.4 µg/l	
	Intermittent release	0.0353 mg/l	
	soil	0.0222 mg/kg	
	Sediment-fresh water	0.29 mg/kg	
	freshwater sediment	0.115 mg/kg	
	Soil	0.0557 mg/kg	
2-phenoxyethyl prop-2-enoate	freshwater sediment	0.053 mg/kg	
2 pricrioxyciriyi prop 2 crioate	Aguatic (freshwater)	2 µg/l	
	soil	0.009 mg/kg	
	Sewage treatment plant	1.77 mg/l	
	Aquatic (marine water)	0.2 μg/l	
T	Marine sediments	0.005 mg/kg	
Tetrahydrofurfuryl alcohol	soil	0.6 mg/kg	
	Aquatic (freshwater)	1.9 mg/l	
	Aquatic (marine water)	0.19 mg/l	
	Sewage treatment plant	10 mg/l	
	freshwater sediment	8.6 mg/kg	
	Marine sediments	0.86 mg/kg	
hexamethylene diacrylate; hexane-1,6-diol diacrylate	soil	0.094 mg/kg	
	Aquatic (freshwater)	0.007 mg/l	
	Marine sediments	0.049 mg/kg	
	freshwater sediment	0.493 mg/kg	
	Sewage treatment plant	2.7 mg/l	
	Aquatic (marine water)	0.001 mg/l	
hydroquinone	Aquatic (freshwater)	0.57 μg/l	
ii ya. oquii lorio	Marine sediments	0.00049 mg/kg	
	soil	0.00049 mg/kg 0.00064 mg/kg	
	Sewage treatment plant	0.71 mg/l	
	freshwater sediment	0.0049 mg/kg	
			+
	Aquatic (marine water)	0.057 μg/l	

8.2 Exposure controls Appropriate Engineering Controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc. Provide easy access to water supply and eye wash facilities.

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Monitoring methods:

BS EN 14042:2003: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

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

Respiratory Protection: Under normal conditions of use, respirator protection is not

required.

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

practices. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid

contact with skin. Wash hands before breaks and

immediately after handling the product. Contaminated work

clothing should not be allowed out of the workplace.

Environmental Controls: Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: purple
Odor: Sweetish

Odor Threshold: No data available.

pH: substance/mixture is non-soluble (in water)

Freezing point:

Boiling Point:

No data available.

No data available.

No data available.

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Evaporation Rate:

Flammability:

No data available.

Not flammable.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

Relative vapor density:

No data available.

No data available.

No data available.

No data available.

Relative density: 1.0576

Solubility(ies)

Solubility in Water:
Solubility (other):
No data available.
Partition coefficient (nNot applicable Mixture

octanol/water):

Autoignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity

Dynamic viscosity:

Kinematic viscosity:

No data available.

9.2 Other information

VOC Content: EC Directive 1999/13: 11.98 g/l ~1.2 % (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

Products: formed.

SECTION 11: Toxicological information

Information on likely routes of exposure

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

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

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

Eye contact: Causes serious eye damage.

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Ingestion:

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

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 2,737.14 mg/kg

Components:

Exo-1.7.7-LD 50 (Rat): 5,750 mg/kg trimethylbicyclo[2.2.1]hep LD 50 (Rat): 4,350 mg/kg

t-2-yl acrylate

Tetrahydrofurfuryl

LD50 (rat): 928 mg/kg acrylate LD 50 (Rat): 928 mg/kg LD 50 (Rat): 882 mg/kg LD 50 (Rat): 1,002 mg/kg

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

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

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

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

LD 50 (Rabbit): > 3,000 mg/kg Experimental result, Key study

Oxybis(methyl-2,1ethanediyl) diacrylate

No data available.

1-Vinylhexahydro-2Hazepin-2-one

Isodecyl acrylate

No data available. No data available.

phenyl bis(2,4,6trimethylbenzoyl)phosphine oxide

2-Isopropyl-9H-No data available.

thioxanthen-9-one

LD 50 (Rat): > 5,000 mg/kg Experimental result, Key study Diphenyl(2,4,6-

trimethylbenzoyl)phosphi ne oxide

2-Propenoic acid ,1-6-

hexanediyl ester, polymer with 2-aminoethanol

2-phenoxyethyl prop-2-

enoate

No data available.

Tetrahydrofurfuryl alcohol

LD 50 (Rat): > 2,000 mg/kg

hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

hydroquinone LD 50 (Rat): 367.3 mg/kg Key study

Dermal

Product: ATEmix 20,719.07 mg/kg

Exo-1.7.7-

Components:

trimethylbicyclo[2.2.1]h

ept-2-yl acrylate

Tetrahydrofurfuryl No data available.

acrylate

2-Phenoxyethyl No data available.

acrylate

Oxybis(methyl-2,1-LD 50 (Rabbit): > 2,000 mg/kg Experimental result, Key study ethanediyl) diacrylate



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1-Vinylhexahydro-2H-

azepin-2-one

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

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

Isodecvl acrylate phenyl bis(2,4.6-

No data available. No data available.

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9H-No data available.

thioxanthen-9-one Diphenyl(2,4,6-

trimethylbenzoyl)phosp

No data available.

hine oxide

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

No data available.

2-phenoxyethyl prop-2-

enoate

No data available.

Tetrahydrofurfuryl

alcohol

No data available.

hexamethylene

diacrylate: hexane-1.6-

diol diacrylate

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

Inhalation

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

Components:

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

No data available.

t-2-yl acrylate

Tetrahydrofurfuryl

acrylate

No data available.

2-Phenoxyethyl acrylate

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

LC 0 (Rat, 7 h): 0.41 mg/l Vapor, Read-across from supporting substance (structural analogue or surrogate), Key study

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

phenyl bis(2,4,6trimethylbenzoyl)phosphine oxide

No data available.

2-Isopropyl-9H-

No data available.

thioxanthen-9-one Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

No data available.

ne oxide

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

No data available.

2-phenoxyethyl prop-2-

No data available.

enoate



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Tetrahydrofurfuryl alcohol LC 50: 751 ppm Vapor

hexamethylene

. .

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

diacrylate; hexane-1,6-

diol diacrylate hydroquinone

No data available.

Repeated dose toxicity

Product: No data available.

Components:

Exo-1,7,7-

NOAEL (Rat(Female, Male), Oral, 28 - 53 d): 100 mg/kg

trimethylbicyclo[2.2.1]hep t-2-yl acrylate

Tetrahydrofurfuryl acrylate

No data available.

2-Phenoxyethyl acrylate Oxybis(methyl-2,1-

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

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

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

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

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

azepin-2-one
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

phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide 2-Isopropyl-9H-

No data available.

No data available.

thioxanthen-9-one

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

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

2-phenoxyethyl prop-2-

enoate

No data available.

No data available.

Tetrahydrofurfuryl alcohol NOAEL (Rat(Male), Oral, 91 - 93 d): 500 ppm(m)

NOAEL (Rat(female), Oral, 91 - 93 d): 1,000 ppm(m)

hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

No data available.

hydroquinone No data available.

Skin Corrosion/Irritation: Irritating.

Product: The health hazard evaluation is based on the toxicological properties of a

similar material.

Components:

Exo-1,7,7- No

No data available.

trimethylbicyclo[2.2.1]h ept-2-yl acrylate

Tetrahydrofurfuryl

No data available.

acrylate

2-Phenoxyethyl

Not irritant Experimental result, Supporting study

acrylate

Oxybis(methyl-2,1- in vivo Category 2 Experimental result, Supporting study

ethanediyl) diacrylate 1-Vinylhexahydro-2H-

in vivo Not irritant Experimental result, Key study

azepin-2-one

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Isodecyl acrylate

phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9H-

thioxanthen-9-one

Diphenyl(2,4,6trimethylbenzoyl)phosp

hine oxide

2-Propenoic acid, 1-6hexanediyl ester,

polymer with 2aminoethanol

2-phenoxyethyl prop-2-

enoate

Tetrahydrofurfuryl

alcohol

hexamethylene diacrylate; hexane-1,6-

diol diacrylate

hydroquinone

No data available.

No data available.

No data available.

in vivo Not irritant Experimental result, Key study

No data available.

No data available.

in vivo Not irritant Experimental result, Key study

in vivo Category 2 Experimental result, Key study

in vivo Not irritant Experimental result, Weight of Evidence study

Serious Eye Damage/Eye

Irritation:

Product: Causes serious eye damage.

Components:

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

ept-2-yl acrylate

Tetrahydrofurfuryl

acrylate

2-Phenoxyethyl

acrylate

Oxybis(methyl-2,1-

ethanediyl) diacrylate

1-Vinylhexahydro-2H-

azepin-2-one

Isodecyl acrylate phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9Hthioxanthen-9-one

Diphenyl(2,4,6-

trimethylbenzoyl)phosp

hine oxide

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

aminoethanol 2-phenoxyethyl prop-2-

enoate

Tetrahydrofurfuryl alcohol

hexamethylene diacrylate; hexane-1,6-

diol diacrylate hydroquinone

No data available.

No data available.

No data available.

in vivo Category 1 OECD GHS

No data available.

Mildly Irritating No data available.

Severely Irritating in vivo Irritating EU

No data available.

Irritating



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Respiratory or Skin Sensitization:

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

Components:

Exo-1.7.7-Skin sensitization:, in vivo (Mouse): Sensitising

trimethylbicyclo[2.2.1]h

ept-2-yl acrylate

Tetrahydrofurfuryl No data available.

acrylate

2-Phenoxyethyl No data available.

acrylate

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

ethanediyl) diacrylate

1-Vinylhexahydro-2H-No data available.

azepin-2-one

Isodecyl acrylate No data available. phenyl bis(2,4,6-No data available.

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9H-No data available.

thioxanthen-9-one

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

trimethylbenzoyl)phosp

hine oxide

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

hexanediyl ester, polymer with 2aminoethanol

2-phenoxyethyl prop-2-No data available.

enoate

Tetrahydrofurfuryl Skin sensitization:, in vivo (Mouse): Non sensitising

alcohol

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

diacrylate; hexane-1,6diol diacrylate

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

Germ Cell Mutagenicity

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

In vitro

Components:

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

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

Tetrahydrofurfuryl No data available.

acrylate

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

1-Vinylhexahydro-2H-No data available.

azepin-2-one

Isodecyl acrylate No data available.



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phenyl bis(2,4,6-trimethylbenzoyl)-

phosphine oxide

2-Isopropyl-9H-

thioxanthen-9-one Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

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

with 2-aminoethanol 2-phenoxyethyl prop-2-

enoate

Tetrahydrofurfuryl alcohol hexamethylene

diacrylate; hexane-1,6-diol diacrylate

hydroquinone

No data available.

No data available.

ino data available.

No data available.

No data available.

No data available.

No data available. No data available.

No data available.

In vivo

Components:

Exo-1,7,7-

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

Tetrahydrofurfuryl

acrylate

2-Phenoxyethyl acrylate

Oxybis(methyl-2,1-ethanediyl) diacrylate

1-Vinylhexahydro-2H-

azepin-2-one

Isodecyl acrylate phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9Hthioxanthen-9-one

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

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

with 2-aminoethanol 2-phenoxyethyl prop-2-

enoate

Tetrahydrofurfuryl alcohol hexamethylene

diacrylate; hexane-1,6diol diacrylate

hydroquinone

No data available.

No data available.

No data available. No data available.

No data available.

No data available. No data available.

No data available.

No data available.

No data available.

No data available.

No data available. No data available.

No data available.

Carcinogenicity

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

Components:

Exo-1,7,7trimethylbicyclo[2.2.1]hep No data available.

t-2-yl acrylate

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

Isodecyl acrylate
phenyl bis(2,4,6trimethylbenzoyl)
No data available.
No data available.

phosphine oxide
2-Isopropyl-9Hthioxanthen-9-one
No data available.

Diphenyl(2,4,6trimethylbenzoyl)phosphi

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

2-phenoxyethyl prop-2- No data available. enoate

Tetrahydrofurfuryl alcohol hexamethylene No data available.

hexamethylene No data available. diacrylate; hexane-1,6-diol diacrylate

hydroquinone No data available.

Reproductive toxicity

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

Components:

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

trimethylbicyclo[2.2.1]hep t-2-yl acrylate

Tetrahydrofurfuryl No data available. acrylate
2-Phenoxyethyl acrylate No data available.

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

1-Vinylhexahydro-2Hazepin-2-one Isodecyl acrylate

No data available.

No data available.

phenyl bis(2,4,6trimethylbenzoyl)phosphine oxide 2-Isopropyl-9H-No data available. No data available.

thioxanthen-9-one
Diphenyl(2,4,6No data available.

trimethylbenzoyl)phosphi ne oxide 2-Propenoic acid ,1-6- No data available.

hexanediyl ester, polymer with 2-aminoethanol 2-phenoxyethyl prop-2-

enoate
Tetrahydrofurfuryl alcohol No data available.

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hexamethylene

No data available.

diacrylate; hexane-1,6-

diol diacrylate

hydroquinone No data available.

Specific Target Organ Toxicity - Single Exposure

Product: May cause respiratory irritation.

Components:

Exo-1.7.7-No data available.

trimethylbicyclo[2.2.1]hep

t-2-vl acrylate

Tetrahydrofurfuryl

No data available.

acrvlate

2-Phenoxyethyl acrylate No data available. Oxvbis(methyl-2.1-No data available.

ethanediyl) diacrylate

No data available.

1-Vinylhexahydro-2H-

azepin-2-one

Isodecyl acrylate phenyl bis(2,4,6No data available. No data available.

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9H-

thioxanthen-9-one

No data available. No data available.

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

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

hexanediyl ester, polymer

with 2-aminoethanol

2-phenoxyethyl prop-2-

No data available.

enoate

Tetrahydrofurfuryl alcohol

hexamethylene

No data available. No data available.

diacrylate; hexane-1,6-

diol diacrylate hydroquinone

No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: May cause damage to organs through prolonged or repeated exposure.

Components:

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

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

Tetrahydrofurfuryl

acrylate

No data available.

2-Phenoxyethyl acrylate

Oxybis(methyl-2,1-

ethanediyl) diacrylate

No data available. No data available.

1-Vinylhexahydro-2H-

No data available.

azepin-2-one

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No data available.

Isodecyl acrylate phenyl bis(2,4,6-

No data available.

trimethylbenzoyl)phosphine oxide

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2-Isopropyl-9Hthioxanthen-9-one No data available.

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

No data available.

ne oxide

2-Propenoic acid, 1-6-

No data available.

hexanediyl ester, polymer with 2-aminoethanol

No data available.

2-phenoxyethyl prop-2enoate

Tetrahydrofurfuryl alcohol

No data available.

hexamethylene

No data available.

diacrylate; hexane-1,6-

diol diacrylate

hydroquinone

No data available.

Target Organs: Liver, Respiratory system

Aspiration Hazard

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

Components:

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

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

No data available.

Tetrahydrofurfuryl

acrylate 2-Phenoxyethyl acrylate

Oxybis(methyl-2,1-

No data available. No data available.

ethanediyl) diacrylate

No data available.

1-Vinvlhexahvdro-2H-

azepin-2-one

No data available.

Isodecyl acrylate phenyl bis(2,4,6trimethylbenzoyl)-

No data available.

phosphine oxide 2-Isopropyl-9H-

No data available.

thioxanthen-9-one

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

trimethylbenzoyl)phosphi

ne oxide

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

hexanediyl ester, polymer with 2-aminoethanol

No data available.

2-phenoxyethyl prop-2-

enoate

Tetrahydrofurfuryl alcohol hexamethylene

diacrylate; hexane-1,6-

No data available.

diol diacrylate

No data available.

hydroquinone

No data available.

SECTION 12: Ecological information

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

environment.



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12.1 Toxicity

Acute toxicity

Remarks:

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

Fish

Product: No data available.

Components

LC 50 (Danio rerio, 96 h): 0.704 mg/l (semi-static) Experimental result, Key Exo-1.7.7-

trimethylbicyclo[2.2.1]hep study

t-2-vl acrylate Tetrahydrofurfuryl No data available.

acrvlate

LC 50 (Leuciscus idus, 96 h): 10 mg/l (Static) Experimental result, Key study 2-Phenoxyethyl acrylate

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

ethanediyl) diacrylate Kev study

1-Vinylhexahydro-2H-LC 50 (Danio rerio, 96 h): 318 mg/l (Static) Experimental result, Key study

azepin-2-one NOAEL (Danio rerio, 96 h): 215 mg/l (Static) Experimental result, Key study

Isodecyl acrylate No data available. phenyl bis(2,4,6-No data available.

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9H-No data available.

thioxanthen-9-one

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

trimethylbenzoyl)phosphi

ne oxide

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

hexanediyl ester, polymer with 2-aminoethanol

2-phenoxyethyl prop-2-No data available.

enoate

Tetrahydrofurfuryl alcohol LC 50 (Oryzias latipes, 96 h): > 101 mg/l (semi-static) Experimental result,

Key study

hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

hydroquinone LC 50 (Oncorhynchus mykiss, 96 h): 0.638 mg/l (flow-through) Experimental

result, Key study

No data available.

Aquatic Invertebrates

Product: No data available.

Components

Exo-1.7.7-No data available.

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

Tetrahydrofurfuryl No data available.

acrylate

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

study

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

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



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azepin-2-one

study Isodecyl acrylate No data available. phenyl bis(2,4,6-No data available.

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9H-No data available.

thioxanthen-9-one

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

trimethylbenzoyl)phosphi study

ne oxide

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

hexanediyl ester, polymer with 2-aminoethanol

No data available. 2-phenoxyethyl prop-2-

enoate

Tetrahydrofurfuryl alcohol EC 50 (Daphnia magna, 48 h): > 91.7 mg/l (semi-static) Experimental result,

Key study experimental result

No data available.

hexamethylene

diacrylate; hexane-1,6diol diacrylate hydroquinone

EC 50 (Daphnia magna, 48 h): 0.134 mg/l (semi-static) experimental result

Experimental result, Key study

Toxicity to Aquatic Plants

Product: No data available.

Components

No data available. Exo-1.7.7-

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate Tetrahydrofurfuryl acrylate

No data available.

2-Phenoxyethyl acrylate

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

1-Vinylhexahydro-2H-

No data available.

azepin-2-one Isodecyl acrylate

No data available.

phenyl bis(2,4,6trimethylbenzoyl)- No data available.

phosphine oxide 2-Isopropyl-9H-

No data available.

thioxanthen-9-one Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi

ne oxide

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

No data available.

with 2-aminoethanol 2-phenoxyethyl prop-2-

No data available.

enoate

Tetrahydrofurfuryl alcohol No data available.

hexamethylene diacrylate; hexane-1,6No data available.

diol diacrylate

hydroquinone

No data available.

Toxicity to microorganisms



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Product: No data available.

Components

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

trimethylbicyclo[2.2.1]hep

t-2-vl acrylate

Tetrahydrofurfuryl No data available.

acrylate

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

1-Vinylhexahydro-2H-

azepin-2-one

No data available.

Isodecyl acrylate EC50 (Pseudomonas putida (bacteria), 0.5 h): > 10,000 mg/l (QSAR) phenyl bis(2,4,6-EC50 (Bacteria, 3 h): > 100 mg/l (OECD-Guideline No.209; 88/302/EEC C.11)

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

trimethylbenzovl)phosphine oxide

2-Isopropyl-9H-No data available.

thioxanthen-9-one

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

trimethylbenzoyl)phosphi

ne oxide

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

hexanediyl ester, polymer with 2-aminoethanol

2-phenoxyethyl prop-2-No data available.

enoate

Tetrahydrofurfuryl alcohol No data available.

hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

No data available. hydroquinone

Chronic Toxicity

Remarks:

Toxic to aquatic life with long lasting effects.

Fish

Product: No data available.

Components

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

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

Tetrahydrofurfuryl No data available.

acrylate

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

1-Vinylhexahydro-2H-No data available.

azepin-2-one

Isodecyl acrylate No data available. phenyl bis(2,4,6-No data available.

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9H-No data available.



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thioxanthen-9-one

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi

ne oxide

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

with 2-aminoethanol 2-phenoxyethyl prop-2No data available. No data available.

enoate Tetrahydrofurfuryl alcohol

hexamethylene diacrylate; hexane-1,6No data available. No data available.

diol diacrylate hydroquinone

No data available.

Aquatic Invertebrates

Product:

No data available.

Components

Exo-1,7,7-

No data available.

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

Tetrahydrofurfuryl acrylate

2-Phenoxyethyl acrylate

Oxybis(methyl-2,1ethanediyl) diacrylate

1-Vinylhexahydro-2H-

azepin-2-one

Isodecyl acrylate phenyl bis(2,4,6-No data available.

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9H-

thioxanthen-9-one Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

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

with 2-aminoethanol 2-phenoxyethyl prop-2-

enoate

Tetrahydrofurfuryl alcohol hexamethylene diacrylate; hexane-1,6-

diol diacrylate hydroquinone

No data available.

No data available. No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

Toxicity to Aquatic Plants

No data available. **Product:**

Components

Exo-1,7,7trimethylbicyclo[2.2.1]hep No data available.

t-2-vl acrylate

Tetrahydrofurfuryl

acrylate

No data available.



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2-Phenoxyethyl acrylate

Oxybis(methyl-2,1-

No data available. No data available.

ethanediyl) diacrylate

1-Vinylhexahydro-2H-

No data available.

azepin-2-one Isodecyl acrylate

No data available.

phenyl bis(2,4,6trimethylbenzoyl)- No data available.

phosphine oxide 2-Isopropyl-9H-

No data available.

thioxanthen-9-one Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

No data available.

ne oxide

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

with 2-aminoethanol 2-phenoxyethyl prop-2-

enoate

No data available.

Tetrahydrofurfuryl alcohol

No data available.

hexamethylene

diacrylate; hexane-1,6-

No data available.

diol diacrylate

hydroquinone No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Components

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

trimethylbicyclo[2.2.1]hep

t-2-vl acrylate

Tetrahydrofurfuryl

No data available.

acrylate 2-Phenoxyethyl acrylate

No data available.

Oxybis(methyl-2,1-

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

ethanediyl) diacrylate 1-Vinylhexahydro-2H-

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

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

azepin-2-one

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

Isodecyl acrylate (structural analogue or surrogate), Key study

phenyl bis(2,4,6-

No data available.

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9H-No data available.

thioxanthen-9-one

Diphenyl(2,4,6trimethylbenzoyl)phosphi

ne oxide

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

with 2-aminoethanol 2-phenoxyethyl prop-2-

No data available.

enoate



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Tetrahydrofurfuryl alcohol (60 d): 0 % Detected in water. Experimental result, Supporting study

(28 d): 92 % Experimental result, Key study Detected in water.

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

diacrylate; hexane-1,6diol diacrylate

hydroquinone (14 d): 70 % Detected in water. Experimental result, Supporting study

BOD/COD Ratio

Product No data available.

Components

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

trimethylbicyclo[2.2.1]hep

t-2-yl acrylate

Tetrahydrofurfuryl No data available.

acrvlate

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

1-Vinylhexahydro-2H-

No data available. azepin-2-one

Isodecyl acrylate

No data available. phenyl bis(2,4,6-No data available.

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9H-No data available.

thioxanthen-9-one

Diphenvl(2.4.6-No data available.

trimethylbenzoyl)phosphi

ne oxide

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

with 2-aminoethanol

2-phenoxyethyl prop-2-

enoate Tetrahydrofurfuryl alcohol

hexamethylene diacrylate; hexane-1,6-

diol diacrylate

No data available.

No data available.

No data available.

No data available.

hydroquinone No data available.

12.3 Bioaccumulative potential

No data available. **Product:**

Components

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

trimethylbicyclo[2.2.1]hep t-2-yl acrylate

Tetrahydrofurfuryl

acrylate 2-Phenoxyethyl acrylate

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

No data available. No data available.

1-Vinylhexahydro-2H-

azepin-2-one

No data available.

Isodecyl acrylate No data available.



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phenyl bis(2,4,6-

No data available.

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9H-No data available.

thioxanthen-9-one

Diphenyl(2,4,6-Cyprinus carpio, Bioconcentration Factor (BCF): 53 - 72 Aquatic sediment Experimental result, Key study

trimethylbenzoyl)phosphi

ne oxide

No data available.

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

with 2-aminoethanol 2-phenoxyethyl prop-2-

No data available.

enoate

Tetrahydrofurfuryl alcohol

hexamethylene

hydroquinone

No data available. No data available.

diacrylate: hexane-1.6diol diacrylate

No data available.

12.4 Mobility in soil

Product: No data available.

Components

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

trimethylbicyclo[2.2.1]hept-

2-vl acrylate

Tetrahydrofurfuryl acrylate No data available. 2-Phenoxyethyl acrylate No data available. Oxybis(methyl-2,1-No data available.

ethanediyl) diacrylate 1-Vinylhexahydro-2H-

No data available.

azepin-2-one

Isodecyl acrylate No data available. phenyl bis(2,4,6-No data available.

trimethylbenzoyl)phosphine oxide

2-Isopropyl-9H-thioxanthen-No data available.

9-one

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

trimethylbenzoyl)phosphine

oxide

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

hexanediyl ester, polymer with 2-aminoethanol

2-phenoxyethyl prop-2-No data available.

enoate

Tetrahydrofurfuryl alcohol No data available. hexamethylene diacrylate; No data available.

hexane-1,6-diol diacrylate

hydroquinone 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.



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Components

Exo-1,7,7-

No data available.

trimethylbicyclo[2.2.

1]hept-2-yl acrylate

No data available.

Tetrahydrofurfuryl acrylate

2-Phenoxyethyl

No data available.

acrylate

Oxybis(methyl-2,1-

No data available.

ethanediyl)

diacrylate

1-Vinylhexahydro-

No data available.

2H-azepin-2-one

Isodecyl acrylate phenyl bis(2,4,6trimethylbenzoyl)- No data available.

No data available.

phosphine oxide 2-Isopropyl-9H-

No data available.

thioxanthen-9-one

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)pho

sphine oxide

2-Propenoic acid ,1-

No data available.

6-hexanediyl ester, polymer with 2aminoethanol

2-phenoxyethyl No data available.

prop-2-enoate

Tetrahydrofurfuryl alcohol

No data available.

hexamethylene diacrylate; hexane-

No data available.

1,6-diol diacrylate hydroquinone

No data available.

12.6 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



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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
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 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: -

ADN

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: SPECIAL PROVISION 375 (<= 5kg/<= 5L)

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
 <03EHS L TEXT(ZAGFA-ARI-S- 5.00L

100017321)[D:Limited quantity]>

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

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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 Transport in bulk according to Annex II of MARPOL and the IBC Code: 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 present or none present in regulated quantities.
- **EU. REACH Annex XIV, Substances Subject to Authorization:** None present or none present in regulated quantities.
- EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: None present or none present in regulated quantities.

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: None present or none present in regulated quantities.

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

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

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

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

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

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15.2 Chemical safety assessment:

Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Section(s) changed compared to the previous issue: 2, 3.

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
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:

Isodecyl acrylate Note A V	Without prejudice to Article 17(2), the name of the

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		0 0_ 0
		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; hexane- 1,6-diol 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 damage, Category 1	Calculation method
Skin sensitizer, Category 1	Calculation method
Toxic to reproduction, Category 1B	Calculation method
Specific Target Organ Toxicity - Single Exposure, Category 3	Calculation method
Specific Target Organ Toxicity - Repeated Exposure, Category 2	Calculation method
Chronic hazards to the aquatic environment, Category 2	Calculation method

Wording of the statements in section 2 and 3

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.

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H360Df	May damage the unborn child. Suspected of damaging fertility.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause 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.
H413	May cause long lasting harmful effects to aquatic life.

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.

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Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Safe Use of Mixtures Information (SUMI)

UV Inks

Disclaimer

This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product Safety Data Sheet (SDS), the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions foremployees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS. The REACH registration numbers, where applicable, complete an extended product SDS.

registration numbers, where applicable, complete an extended product 3D3.	
Operational conditions	
Max Duration	Up to 8 h/d
Frequency of exposure	< 240 d/y
Physical state	liquid
Process conditions	Covers use at ambient temperatures.
	Adequate ventilation should be provided so that exposure limits are not
	exceeded.
	As a rule, at least 10 air changes per hour are recommended at the
	workplace.
	Avoid contact with skin and eyes.
	Regular cleaning of equipment, work area and clothing.
	Supervision in place to check that Risk Management Measures (RMM's) in
	place are being correctly used and Occupational Conditions (OC's) followed.
Risk management measures	
Conditions and measures related	People working with this product should get instructions before use. This
to Personal Protection Equipment	product should only be used in an industrial workplace.

Conditions and measures related to Personal Protection Equipment (PPE), hygiene and health evaluation

Wear safety glasses with side shields (or goggles).

Chemical goggles are recommended.

Wear chemical-resistant gloves and protective clothing. See Section 8 of the SDS for Personal Protective Equipment.

Eye wash station and emergency showers are recommended.

Avoid breathing mists or vapors.

Avoid contact with eyes, skin, and clothing.

Training of worker in relation to proper use and maintenance of the PPE must be ensured.







Good practice advice

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Use personal protective equipment as required.

Wash hands before breaks and immediately after handling the product.

Handle in accordance with good industrial hygiene and safety practice.

Use only with adequate ventilation.

Do not eat, drink or smoke when using the product.

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store at room temperature in the original container.





Environmental Precautions

Do not allow to enter drains, sewers or watercourses.

Dispose of waste and residues in accordance with local authority requirements.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Use descriptors

IS - Use at industrial sites.

SU7 - Printing and reproduction media.

PC18 - Inks and toners

PROC3 - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition.

PROC10 - Roller application or brushing.

PROC28 - Manual maintenance (cleaning and repair) of machinery

ERC5 - Use at industrial site leading to inclusion into/onto article.

Additional information on product composition

In section 2 of the SDS as well as on the label, the classification of the mixture is provided.

All ingredients contributing to the classification are stated in Section 3 of the SDS.

Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.

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