

Version: 1.0

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H315: Causes skin irritation.

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 WHITE UV INK

Other means of identification:

UFI: R2T1-N086-2006-S1SX

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

USA

LogoJET Inc. 301 Prides Crossing Lafayette, LA 70508

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.

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

Health Hazards Skin irritation

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

Environmental Hazards

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

environment



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2.2 Label Elements

Contains: 2-Phenoxyethyl acrylate

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

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



Signal Word: Danger

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

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

H361fd: Suspected of damaging fertility. Suspected of damaging the

unborn child.

H372: Causes damage to organs through prolonged or repeated

exposure.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P201: Obtain special instructions before use.

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

P273: Avoid release to the environment.

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

protection.

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

advice/attention.

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

Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/ physician. P308+P313: IF exposed or concerned: Get medical advice/attention.

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

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.	

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		and U	K SI 2020/1567	/		
1- Vinylhexahydr o-2H-azepin- 2-one	10 - <20%	2235-00-9	218-787-6	01- 2119977109- 27-XXXX;	No data available.	
Oxybis(methyl -2,1- ethanediyl) diacrylate	10 - <20%	57472-68-1	260-754-3	01- 2119484629- 21-XXXX;	No data available.	
Diphenyl(2,4,6 - trimethylbenzo yl)phosphine oxide	3 - <5%	75980-60-8	278-355-8	01- 2119972295- 29-XXXX;	No data available.	
2- phenoxyethyl prop-2-enoate	2.5 - <5%	56641-05-5	500-133-9	01- 2120752382- 57-XXXX;	No data available.	
2- Phenoxyethan ol	1 - <3%	122-99-6	204-589-7	01- 2119488943- 21-XXXX;	No data available.	
2- [[(Butylamino) carbonyl]oxy]e thyl acrylate	1 - <2.5%	63225-53-6	264-036-0	01- 2120751208- 56-XXXX;	No data available.	
2-Hydroxy-2- methylpropiop henone	1 - <5%	7473-98-5	231-272-0	01- 2119472306- 39-XXXX;	No data available.	
Oligo[2- hydroxy-2- methyl-1-[4-(1- methylvinyl)ph enyl]propanon e	0.1 - <1%	163702-01-0	402-990-3	01- 2120016508- 60-XXXX; 01- 0000015270- 82-XXXX;	No data available.	
2,4,6- trimethylbenzo phenone	0.1 - <0.25%	954-16-5	403-150-9	01- 0000015284- 73-XXXX;	No data available.	
2,6-di-tert- Butyl-p-cresol	0.1 - <0.25%	128-37-0	204-881-4	01- 2119565113- 46-XXXX;	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.

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



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This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
2-Phenoxyethyl acrylate	Classification: Skin Sens.: 1A: H317; Repr.: 2: H361d; Aquatic	No data
	Chronic: 2: H411;	available.
1-Vinylhexahydro-2H-	Classification: Acute Tox.: 4: H302; Eye Irrit.: 2A: H319; Skin	No data
azepin-2-one	Sens.: 1B: H317; STOT RE: 1: H372; Acute Tox.: 4: H312;	available.
Oxybis(methyl-2,1-	Classification: Skin Sens.: 1: H317; Eye Dam.: 1: H318; Skin	No data
ethanediyl) diacrylate	Irrit.: 2: H315;	available.
Diphenyl(2,4,6-	Classification: Repr.: 2: H361f; Repr.: 2: H361f; Skin Sens.:	No data
trimethylbenzoyl)phosphin	1B: H317; Aquatic Chronic: 2: H411;	available.
e oxide		
2-phenoxyethyl prop-2-	Classification: Skin Sens.: 1A: H317; Aquatic Chronic: 2:	No data
enoate	H411;	available.
2-Phenoxyethanol	Classification: Eye Dam.: 1: H318; STOT SE: 3: H335; Acute	No data
-	Tox.: 4: H302; Eye Irrit.: 2: H319; Acute Tox.: 4: H302;	available.
2-	Classification: Acute Tox.: 4: H332; Skin Sens.: 1A: H317;	No data
[[(Butylamino)carbonyl]oxy	Aquatic Chronic: 2: H411;	available.
]ethyl acrylate		
2-Hydroxy-2-	Classification: Acute Tox.: 4: H302; Aquatic Chronic: 3: H412;	No data
methylpropiophenone		available.
Oligo[2-hydroxy-2-methyl-	Classification: Repr.: 2: H361f; STOT RE: 1: H372; Aquatic	No data
1-[4-(1-	Chronic: 4: H413;	available.
methylvinyl)phenyl]propan		
one		
2,4,6-	Classification: Eye Irrit.: 2: H319; Eye Irrit.: 2: H319; Acute	No data
trimethylbenzophenone	Tox.: 4: H302; Acute Tox.: 4: H302; Aquatic Acute: 1: H400;	available.
	Aquatic Chronic: 1: H410; Aquatic Acute: 1: H400; Aquatic	
	Chronic: 1: H410;	
2,6-di-tert-Butyl-p-cresol	Classification: Aquatic Chronic: 1: H410; Aquatic Acute: 1:	No data
	H400;	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: Move to fresh air.

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

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

develops, get medical attention.

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

remove contact lenses. Call a physician or poison control center

immediately.

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

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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.

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. 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.



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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. Local and general ventilation):

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.

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
2,6-di-tert-Butyl-p-cresol	TWA	10 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).



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DNEL-Values

NEL-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	Dermal	Systemic, long-term; 3.5 mg/kg	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
	General population	Eyes	Local effect;	No hazard identified
1-Vinylhexahydro-2H-azepin-2- one	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
Oxybis(methyl-2,1-ethanediyl) diacrylate	Workers	Inhalation	Systemic, long-term; 24.48 mg/m3	Repeated dose toxicity
	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
Diphenyl(2,4,6- rimethylbenzoyl)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
	General population	Inhalation	Systemic, long-term; 0.145 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
	General population	Dermal	Systemic, long-term; 0.0833 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.0833 mg/kg	Repeated dose toxicity
2-phenoxyethyl prop-2-enoate	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Local, long-term; 97 mg/m3	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 3.5 mg/kg	
2. Dhanasusathan al	Workers	Inhalation	mg/m3	Repeated dose toxicity
2-Phenoxyethanol	General population	Inhalation	Local, long-term; 2.41 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 2.41 mg/m3	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 20.83 mg/kg Systemic, long-term; 5.7	Repeated dose toxicity
	Workers	Inhalation	mg/m3 Local effect;	Lavy barrand (no three bala
	General population	Eyes		Low hazard (no threshold derived)
	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
	General population	Oral	Systemic, long-term; 9.23 mg/kg	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	Local, long-term; 5.7 mg/m3	Description 1.11
2- [[(Butylamino)carbonyl]oxy]ethyl acrylate	Workers	Dermal	Systemic, long-term; 2 mg/kg	Repeated dose toxicity

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	General population	Oral	Systemic, long-term; 1 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 1 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Systemic, long-term; 9.9 mg/m3	
	General population	Inhalation	Systemic, long-term; 1.7 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
2-Hydroxy-2- methylpropiophenone	Workers	Inhalation	Systemic, long-term; 3.5 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 0.9 mg/m3	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	Workers	Dermal	Systemic, long-term; 1 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.4 mg/kg	
	General population	Dermal	Systemic, long-term; 0.5 mg/kg	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
Oligo[2-hydroxy-2-methyl-1-[4- (1- methylvinyl)phenyl]propanone	General population	Inhalation	Systemic, long-term; 0.29 mg/m3	Repeated dose toxicity
, , , , , , , , , , , , , , , , , , ,	Workers	Dermal	Systemic, long-term; 0.33 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.167 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Systemic, long-term; 1.175 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.167 mg/kg	Repeated dose toxicity
2,6-di-tert-Butyl-p-cresol	Workers	Eyes	Local effect;	No hazard identified
	General population	Inhalation	Systemic, long-term; 0.86 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 3.5 mg/m3	
	Workers	Dermal	Systemic, long-term; 0.5 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.25 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified

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	
	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	
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	

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	freshwater sediment	0.115 mg/kg	
	Soil	0.0557 mg/kg	
2-phenoxyethyl prop-2-enoate	freshwater sediment	0.053 mg/kg	
	Aquatic (freshwater)	2 μg/l	
	soil	0.009 mg/kg	
	Sewage treatment plant	1.77 mg/l	
	Aquatic (marine water)	0.2 μg/l	
	Marine sediments	0.005 mg/kg	
2-Phenoxyethanol	soil	1.31 mg/kg	
	Aquatic (marine water)	0.094 mg/l	
	Sewage treatment plant	36 mg/l	
	Aquatic (freshwater)	0.943 mg/l	
	freshwater sediment	7.237 mg/kg	
	Marine sediments	0.724 mg/kg	
2- [[(Butylamino)carbonyl]oxy]ethyl acrylate	soil	0.003 mg/kg	
acrylate	freshwater sediment	0.024 mg/kg	
	Aguatic (marine water)	0 mg/l	
	Marine sediments	0.002 mg/kg	
	Sewage treatment plant	3.54 mg/l	
	Aquatic (freshwater)	0.003 mg/l	
2-Hydroxy-2-	Aquatic (marine water)	0 mg/l	
methylpropiophenone	riquatio (marine water)	o mg/i	
meanyipropropriories	Aquatic (freshwater)	0.002 mg/l	
	Sewage treatment plant	45 mg/l	
	Marine sediments	0.001 mg/kg	
	freshwater sediment	0.009 mg/kg	
	soil	0.001 mg/kg	
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone		0.117 mg/kg	
	soil	0.093 mg/kg	
	Marine sediments	0.012 mg/kg	
	Aquatic (freshwater)	0.003 mg/l	
	Sewage treatment plant	0.16 mg/l	
	Aquatic (marine water)	0 mg/l	
2,6-di-tert-Butyl-p-cresol		0.02 μg/l	
7 1	soil	0.04769 mg/kg	
	Marine sediments	0.00996 mg/kg	
	Aquatic (freshwater)	0.199 μg/l	
	freshwater sediment	0.0996 mg/kg	
	Predator	8.33 mg/kg	Oral
	Sewage treatment plant	0.17 mg/l	

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.

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.

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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.

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

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

contact with skin. Wash hands before breaks and

immediately after handling the product. Contaminated work

clothing should not be allowed out of the workplace.

Environmental Controls: Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid Form: liquid Color: White

Odor: acrylic odor Odor Threshold:

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

No data available.

Freezing point: No data available. **Boiling Point:** > 212 °F/> 100 °C

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

Evaporation Rate: No data available. Flammability: Not flammable. Upper/lower limit on flammability or explosive limits **Explosive limit - upper:**

No data available. **Explosive limit - lower:** No data available. Vapor pressure: No data available. Relative vapor density: No data available. No data available. Density:



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Relative density:

1.2288

Solubility(ies)

Solubility in Water: Insoluble in water
Solubility (other): No data available.

Partition coefficient (n- Not applicable Mixture

octanol/water):

Autoignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity

Dynamic viscosity: No data available

No data available

Kinematic viscosity: No data available.

Explosive properties: No data available.

Oxidizing properties: No data available.

9.2 Other information

VOC Content: EC Directive 1999/13: 20.21 g/l ~2.02 % (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.

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.

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

11.1 Information on toxicological effects

Acute toxicity

Oral

10.6

Product: ATEmix: 7,655.47 mg/kg

Components:

SDS GB 11/31



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

1-Vinylhexahydro-2H-LD 50 (Rat): 1,732 mg/kg Experimental result, Key study

azepin-2-one Oxvbis(methyl-2.1-LD 50 (Rat): 4,270 mg/kg Experimental result, Key study

ethanediyl) diacrylate

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

trimethylbenzoyl)phosphi ne oxide

2-phenoxyethyl prop-2-No data available.

enoate 2-Phenoxyethanol ATE: 1,394 mg/kg

No data available. [[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-LD 50 (Rat): 1,694 mg/kg Experimental result, Key study methylpropiophenone

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

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

none 2.4.6-LD 50: 844 mg/kg

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

Dermal

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

Product: ATEmix 8,629.44 mg/kg

Components: 2-Phenoxyethyl No data available.

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

1-Vinylhexahydro-2Hazepin-2-one

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

ethanediyl) diacrylate

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

hine oxide 2-phenoxyethyl prop-2-No data available.

enoate 2-Phenoxyethanol No data available. No data available.

[[(Butylamino)carbonyl] oxylethyl acrylate

2-Hydroxy-2-LD 50 (Rat): 6,929 mg/kg Experimental result, Key study

methylpropiophenone Oligo[2-hydroxy-2-No data available.

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

anone 2,4,6-No data available.

trimethylbenzophenone No data available.

cresol



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Inhalation

Product: ATEmix150 mg/l

Components:

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2H-

No data available. No data available.

azepin-2-one

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

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

No data available.

ne oxide

2-phenoxyethyl prop-2-

No data available.

enoate

2-Phenoxyethanol

LC 50: 1,000 mg/m3 Aerosol

No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-

No data available.

methylpropiophenone

Oligo[2-hydroxy-2-

No data available.

methyl-1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-No data available.

trimethylbenzophenone

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

Repeated dose toxicity

Product: No data available.

Components:

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2H-

NOAEL (Rat(Female, Male), Oral, 43 - 53 d): 300 mg/kg NOAEL (Rat(Female, Male), Inhalation): 0.058 mg/l

azepin-2-one

Oxybis(methyl-2,1-

ethanediyl) diacrylate

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

Diphenyl(2,4,6trimethylbenzoyl)phosphi

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

ne oxide

2-phenoxyethyl prop-2-

No data available.

enoate 2-Phenoxyethanol

No data available.

No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-

No data available.

methylpropiophenone Oligo[2-hydroxy-2-

NOAEL (Rat, Oral, 28 d): 10 mg/kg

methyl-1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-No data available.

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol NOAEL (Rat(Male), Oral, 76 - 110 Weeks): 70 mg/kg

Skin Corrosion/Irritation:



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Product: Causes skin irritation.

Components:

2-Phenoxyethyl Not irritant Experimental result, Supporting study

acrylate

1-Vinylhexahydro-2Hin vivo Not irritant Experimental result, Key study

azepin-2-one

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

ethanediyl) diacrylate

Diphenyl(2,4,6in vivo Not irritant Experimental result, Key study

trimethylbenzoyl)phosp

hine oxide 2-phenoxyethyl prop-2-No data available.

enoate

2-Phenoxyethanol in vivo Not irritant Experimental result, Not specified

No data available.

[[(Butylamino)carbonyl]

oxy]ethyl acrylate

2-Hydroxy-2in vivo Not irritant Experimental result, Key study

methylpropiophenone

Oligo[2-hydroxy-2in vivo Not classified Experimental result, Key study

methyl-1-[4-(1-

methylvinyl)phenyl]prop anone

2,4,6-

No data available. trimethylbenzophenone

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

cresol

in vivo Not irritant Experimental result, Key study

Serious Eye Damage/Eye Irritation:

Product: Causes serious eye damage.

Components:

2-Phenoxyethyl No data available.

acrylate

1-Vinylhexahydro-2H-No data available.

azepin-2-one

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

ethanediyl) diacrylate

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

trimethylbenzoyl)phosp

hine oxide

2-phenoxyethyl prop-2-

enoate

No data available.

2-Phenoxyethanol No data available. No data available.

[[(Butylamino)carbonyl] oxy]ethyl acrylate

2-Hydroxy-2in vivo Not irritating EU

methylpropiophenone

Oligo[2-hydroxy-2-No data available.

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

anone

2,4,6-No data available.

trimethylbenzophenone

2,6-di-tert-Butyl-pin vivo Not irritating EU

cresol



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Respiratory or Skin Sensitization:

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

Components:

2-Phenoxyethyl

No data available.

acrylate

1-Vinylhexahydro-2H-

No data available.

azepin-2-one

Oxybis(methyl-2,1-

No data available.

ethanediyl) diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosp

hine oxide

No data available.

2-phenoxyethyl prop-2-

No data available.

enoate

2-Phenoxyethanol

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

No data available.

[[(Butylamino)carbonyl] oxy]ethyl acrylate

2-Hydroxy-2-

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

methylpropiophenone

Oligo[2-hydroxy-2-

methyl-1-[4-(1-

No data available.

methylvinyl)phenyl]prop anone

2.4.6-

No data available.

trimethylbenzophenone

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

azepin-2-one

Oxybis(methyl-2,1-

ethanediyl) diacrylate

No data available.

Diphenyl(2,4,6trimethylbenzoyl)phosphi

No data available.

2-phenoxyethyl prop-2-

ne oxide

No data available.

No data available.

enoate

2-Phenoxyethanol No data available. No data available.

[[(Butylamino)carbonyl]ox

ylethyl acrylate

No data available.

methylpropiophenone

2-Hydroxy-2-

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

methylvinyl)phenyl]propa

none



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2,4,6- No data available.

trimethylbenzophenone

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

In vivo

Components:

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

azepin-2-one

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

ethanediyl) diacrylate

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

trimethylbenzoyl)phosphi ne oxide

2-phenoxyethyl prop-2-

!- No data available.

enoate

2-Phenoxyethanol2- No data available.No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2- No data available.

methylpropiophenone

Oligo[2-hydroxy-2-methyl- No data available.

1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6- No data available.

trimethylbenzophenone

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

Carcinogenicity

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

Components:

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

azepin-2-one

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

ethanediyl) diacrylate

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

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2- No data available.

enoate

2-Phenoxyethanol No data available. 2- No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2- No data available.

methylpropiophenone

Oligo[2-hydroxy-2-methyl- No data available.

1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6- No data available.

trimethylbenzophenone

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

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No data available.



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Reproductive toxicity

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

Components:

2-Phenoxyethyl acrylate

1-Vinylhexahydro-2Hazepin-2-one

Oxybis(methyl-2,1-

ethanediyl) diacrylate Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-Phenoxyethanol No data available. No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-No data available.

methylpropiophenone

Oligo[2-hydroxy-2-methyl-

1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-No data available.

trimethylbenzophenone

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

Specific Target Organ Toxicity - Single Exposure

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

Components:

2-Phenoxyethyl acrylate

1-Vinylhexahydro-2H-

azepin-2-one

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

ethanediyl) diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-Phenoxyethanol No data available. No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate 2-Hydroxy-2-

No data available.

methylpropiophenone

Oligo[2-hydroxy-2-methyl-No data available.

1-[4-(1-

methylvinyl)phenyl]propa

none

2.4.6 -No data available.

trimethylbenzophenone

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

No data available. No data available.

No data available.

No data available.



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Specific Target Organ Toxicity - Repeated Exposure

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

Components:

2-Phenoxyethyl acrylate

1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1-

ethanediyl) diacrylate

Diphenyl(2,4,6trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-Phenoxyethanol

[[(Butylamino)carbonyl]ox

vlethyl acrylate

2-Hydroxy-2-

methylpropiophenone

Oligo[2-hydroxy-2-methyl-

1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-

trimethylbenzophenone

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

No data available.

No data available. No data available.

No data available.

No data available.

Target Organs: Liver, Respiratory system

Aspiration Hazard

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

Components:

2-Phenoxyethyl acrylate

1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1-

ethanediyl) diacrylate Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-Phenoxyethanol

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-

methylpropiophenone

Oligo[2-hydroxy-2-methyl-

1-[4-(1-

methylvinyl)phenyl]propa

none

2.4.6-

No data available.

trimethylbenzophenone

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





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Other hazards

Product: The titanium dioxide in this product is embedded in a matrix

which minimizes the likelihood of exposure to the pigment.;

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

Diphenyl(2,4,6trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

No data available.

No data available.

2-Phenoxyethanol LC 50 (Oncorhynchus nerka, 8 h): 333 mg/l Experimental result, Not

specified

Key study

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

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

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

result, Key study No data available.

[[(Butylamino)carbonyl]ox

ylethyl acrylate

2-Hydroxy-2-

methylpropiophenone Oligo[2-hydroxy-2-

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

none

2,4,6-

trimethylbenzophenone

LC 50 (Leuciscus idus, 48 h): 160 mg/l (Static) Experimental result, Key

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

result, Key study

No data available.

2,6-di-tert-Butyl-p-cresol LC 50 (96 h): 0.199 mg/l QSAR, Key study QSAR

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

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

azepin-2-one study



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Oxybis(methyl-2,1-

EC 50 (Daphnia magna, 48 h): 22.3 mg/l (Static) Experimental result, Key

ethanediyl) diacrylate

Diphenyl(2,4,6-

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

trimethylbenzoyl)phosphi

study

ne oxide 2-phenoxyethyl prop-2-

enoate

No data available.

2-Phenoxyethanol

LC 50 (Daphnia magna, 48 h): 488 mg/l (Static) experimental result

Experimental result, Supporting study

2-

No data available.

[[(Butylamino)carbonyl]ox

vlethyl acrylate

2-Hydroxy-2-

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

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

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

methylvinyl)phenyl]propa

none

2,4,6-No data available.

trimethylbenzophenone

2,6-di-tert-Butyl-p-cresol EC 50 (Daphnia magna, 48 h): 0.48 mg/l (Static) Experimental result, Key

study

Toxicity to Aquatic Plants Product:

No data available.

Components

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2H-

No data available. No data available.

azepin-2-one

Oxybis(methyl-2,1-

No data available.

ethanediyl) diacrylate

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

ne oxide

2-phenoxyethyl prop-2-

No data available.

enoate

No data available.

2-Phenoxyethanol

No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate 2-Hydroxy-2-

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

methylpropiophenone

No data available.

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

methylvinyl)phenyl]propa

none

No data available.

2,4,6trimethylbenzophenone

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

No data available.

Toxicity to microorganisms

Product: No data available.

Components

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

No data available.

No data available.

No data available.

88/302/EEC C.11) No data available

No data available.



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

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

Oxybis(methyl-2,1-

ethanediyl) diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-Phenoxyethanol

2-

[[(Butylamino)carbonyl]ox vlethyl acrylate

2-Hydroxy-2-

methylpropiophenone Oligo[2-hydroxy-2-

methyl-1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-

No data available

trimethylbenzophenone

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

Chronic Toxicity

Remarks:

Toxic to aquatic life with long lasting effects.

Fish

Product: No data available.

Components

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1-

ethanediyl) diacrylate

Diphenyl(2,4,6trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-Phenoxyethanol

No data available.

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

result Experimental result, Key study

No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate

2-Hydroxy-2-

methylpropiophenone

Oligo[2-hydroxy-2-

methyl-1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-No data available.

trimethylbenzophenone

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

Aquatic Invertebrates



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Product: No data available.

Components

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2Hazepin-2-one

Oxybis(methyl-2,1ethanediyl) diacrylate

Diphenyl(2,4,6trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2enoate

2-Phenoxyethanol

[[(Butylamino)carbonyl]ox y]ethyl acrylate

2-Hydroxy-2methylpropiophenone

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

methylvinyl)phenyl]propa none

2,4,6-

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

No data available. No data available.

No data available.

No data available.

No data available.

No data available. No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available. No data available.

No data available.

No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2Hazepin-2-one

Oxybis(methyl-2,1ethanediyl) diacrylate

Diphenyl(2,4,6trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-Phenoxyethanol

[[(Butylamino)carbonyl]ox y]ethyl acrylate

2-Hydroxy-2methylpropiophenone Oligo[2-hydroxy-2-

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

none 2,4,6-

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

No data available.

12.2 Persistence and Degradability



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Biodegradation

Product: No data available.

Components

2-Phenoxyethyl acrylate No data available.

1-Vinylhexahydro-2H-(28 d): 30 - 40 % Detected in water. Experimental result, Key study azepin-2-one

Oxybis(methyl-2,1-(28 d): 90 - 100 % Detected in water. Experimental result, Key study ethanediyl) diacrylate

Diphenyl(2,4,6-(28 d): > 0 - 10 % Detected in water. Experimental result, Key study

trimethylbenzoyl)phosphi ne oxide

2-phenoxyethyl prop-2enoate

2-Phenoxyethanol 90 % Detected in water. Experimental result, Key study

No data available. [[(Butylamino)carbonyl]ox

No data available.

vlethyl acrylate 2-Hydroxy-2-59 % Detected in water. Experimental result, Not specified

methylpropiophenone Oligo[2-hydroxy-2-methyl-

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

methylvinyl)phenyl]propa

none 2,4,6-No data available.

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

BOD/COD Ratio

Product No data available.

Components

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

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

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

ne oxide 2-phenoxyethyl prop-2-No data available.

enoate 2-Phenoxyethanol No data available. No data available.

[[(Butylamino)carbonyl]ox

y]ethyl acrylate 2-Hydroxy-2-No data available.

methylpropiophenone Oligo[2-hydroxy-2-methyl-No data available.

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

none 2,4,6-No data available.

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

12.3 Bioaccumulative potential



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Product: No data available.

Components

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1ethanediyl) diacrylate

Diphenyl(2,4,6trimethylbenzoyl)phosphi

ne oxide

2-phenoxyethyl prop-2-

enoate

2-Phenoxyethanol

[[(Butylamino)carbonyl]ox

vlethyl acrylate

2-Hydroxy-2methylpropiophenone

Oligo[2-hydroxy-2-methyl-

1-[4-(1-

methylvinyl)phenyl]propa

none

2,4,6-

trimethylbenzophenone

No data available.

No data available.

No data available.

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

sediment Experimental result, Key study

No data available.

Bioconcentration Factor (BCF): 0.35 Aquatic sediment Estimated by

calculation, Key study

No data available.

No data available.

No data available.

No data available.

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

12.4 Mobility in soil

Product: No data available.

Components

2-Phenoxyethyl acrylate 1-Vinylhexahydro-2H-

azepin-2-one

Oxybis(methyl-2,1ethanediyl) diacrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphine

oxide

2-phenoxyethyl prop-2-

enoate

2-Phenoxyethanol

[[(Butylamino)carbonyl]oxy] ethyl acrylate

2-Hydroxy-2-

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

[4-(1methylvinyl)phenyl]propano

ne 2,4,6-

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

No data available.

No data available.

No data available.

No data available. No data available.

No data available.

No data available.

No data available.

No data available.

12.5 Results of PBT and vPvB assessment



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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.

acrylate

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

No data available.

Oxybis (methyl-2,1-

No data available.

ethanediyl)

diacrylate

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

trimethylbenzoyl)pho

sphine oxide

2-phenoxyethyl

prop-2-enoate

No data available.

2-Phenoxyethanol

No data available. No data available.

[[(Butylamino)carbon

yl]oxy]ethyl acrylate

No data available.

2-Hydroxy-2methylpropiophenon

Oligo[2-hydroxy-2methyl-1-[4-(1methylvinyl)phenyl]p

No data available.

ropanone

2.4.6-

No data available.

trimethylbenzophen

one

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

cresol

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.

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

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 9MI Label(s): 14.4 Packing Group: Ш **Excepted quantity** F1 14.5 Environmental Hazards:

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

Yes

Other information

Passenger and cargo aircraft: Allowed.

Allowed. Cargo aircraft only:

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

Abbreviations and acronyms:

Eviations 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

Key literature references and sources for data:

Safety Data Sheet from the supplier.

ECHA

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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

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

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

Wording of the statements in section 2 and 3

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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 323.	
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.

(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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