



## SAFETY DATA SHEET

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### SECTION 1 – IDENTIFICATION

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#### 1.1 Product Identifier

Product number and name      **98050 PRATLEY UV BOND, 3g bubble pack**  
Product type                      Adhesive

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

Relevant identified uses      Consumer use  
Uses advised against          No specific uses advised against.  
   Avoid eye contact, inhalation of vapours or ingestion.

#### 1.3 Details of Supplier of Safety Data Sheet

Manufactured by	Pratley Polymers Manufacturing (Proprietary) Ltd 14 Jackson Street, Fectoria, Krugersdorp, 1745 South Africa Tel: +27-11-955-2190 Fax: +27-11-955-3918 <a href="http://www.pratleyadhesives.com">www.pratleyadhesives.com</a>
Supplied in South Africa by	Pratley (Proprietary) Ltd 14 Jackson Street, Fectoria, Krugersdorp, 1745 South Africa Tel: +27-11-955-2190 Fax: +27-11-955-3918 <a href="mailto:sales@pratley.com">sales@pratley.com</a> <a href="http://www.pratleyadhesives.com">www.pratleyadhesives.com</a>
Supplied outside South Africa by	Pratley Exporting (Proprietary) Ltd 14 Jackson Street, Fectoria, Krugersdorp, 1745 South Africa Tel: +27-11-955-2190 Fax: +27-11-955-3918 <a href="mailto:exports@pratley.com">exports@pratley.com</a> <a href="http://www.pratleyadhesives.com">www.pratleyadhesives.com</a>

#### 1.4 Emergency Telephone Number

South Africa    +27-11-955-2190 during office hours  
                         10117 All emergencies  
                         +27-21-689-5227 Poisons Information Centre

Europe    112 All emergencies

For detailed poison information, the national poison centre, if available, should be contacted.

United Kingdom 999 All emergencies

111 (NHS, England, NHS 24, Scotland or NHS Direct, Wales),  
0808 808 8000 (Lifeline, N. Ireland)  
01 809 2166 (National Poison Information Centre, Republic of Ireland)

Australia 000 All emergencies

13 11 26 NSW Poison Information Centre

New Zealand 111 All emergencies

0800 764 766 National Poisons Centre (poisons@otago.ac.nz)

Americas 911 All emergencies

1-800-222-1222 Poisons Help (PoisonHelp.org)

## SECTION 2 – HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification

Class	Category	Hazard Code and Statement
Skin Corrosion/Irritation	2	H315 Causes skin irritation.
Eye Corrosion/Irritation	1	H318 Causes serious eye damage.
Skin Sensitizer	1	H317 May cause an allergic skin reaction.
Reproductive Toxicity	1	H360 May damage fertility or the unborn child.
Aquatic Toxicity - Acute	2	H401 Toxic to aquatic life.
Aquatic Toxicity - Chronic	2	H411 Toxic to aquatic life with long lasting effects.

#### 2.1.2 Additional Information

EUH208 Contains several acrylates, TBPB and HEMA-phosphate. May produce an allergic reaction.

### 2.2 Label Elements

Hazard Pictogram(s),  
Signal Word and  
Ingredients



**DANGER**

**UDMA**  
**TPO**  
**BHT**

The technical name has been replaced on the label by a name / identification that is easier for a consumer to identify. See section 16 for a comparison of the technical and alternative names used.

Hazard Statements

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 **Causes serious eye damage.**  
H360 **May damage fertility or the unborn child.**  
H401 Toxic to aquatic life.  
H411 **Toxic to aquatic life with long lasting effects.**

Obligatory  
Statements

EUH208 **Contains several acrylates, and TBPB. May produce an allergic reaction.**

Precautionary  
Statements

P101 **If medical advice is needed, have product container or label at hand.**  
P102 **Keep out of reach of children.**

- P103 **Read label before use.**
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing vapours.
- P264 Wash hands thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 **Avoid release to the environment.**
- P280 **Wear protective gloves/eye protection.**
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 If exposed or concerned: get medical advice/attention.
- P310 Immediately call a POISON CENTER/doctor.
- P321 Specific treatment (see..on this label)
- P332+P313 If skin irritation occurs: get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash before reuse.
- P391 Collect spillage.
- P405 Store locked up.
- P501 **Dispose of contents/container in accordance with local regulations.**

*Only the hazard statements and Precautionary statements in bold text have been included on the label in accordance with the allowed omissions set out in the ECHA Guidance on Labelling and Packaging.*

### 2.3 Other Hazards

Contains substance(s) under assessment as an endocrine disruptor.

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Hazardous Ingredients	% [weight]	CAS No. EC No. Index No.	SCL, M-Factors, ATE	Classification	H / EUH Code(s)
7,7,9(or7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate	35 - 55	72869-86-4 276-957-5 -		Skin sensitizer – 1B  Aquatic, chronic - 2  Obligatory	H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. EUH208 Contains UDMA. May produce an allergic reaction.
2-hydroxyethyl methacrylate	15 - 35	868-77-9 212-782-2 607-124-00-X		Skin irritation – 2 Eye irritation – 2 Skin sensitizer – 1  Obligatory	H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. EUH208 Contains glycol methacrylate. May produce an allergic reaction.

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tert-butyl perbenzoate	4 - 5	614-45-9 210-382-2 -	M=1 M(Chronic)=1	Organic Peroxide – C Skin Irritant – 2 Skin sensitizer – 1  Acute Toxicity, inhalation – 4 Aquatic Toxicity, acute – 1 Aquatic Toxicity, chronic – 3  Obligatory	H242 Heating may cause fire. H315 Causes skin irritation. H317 May cause an allergic skin reaction.  H332 Harmful if inhaled.  H400 Very toxic to aquatic life.  H410 Very toxic to aquatic life with long lasting effects. EUH208 Contains TBPB. May produce an allergic reaction.
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	1.5 – 2.5	1187441-10-6 810-703-1 -		Eye damage – 1 Skin sensitizer – 1B  Obligatory	H318 Causes serious eye damage. H317 May cause an allergic skin reaction. EUH208 Contains HEMA-phosphate. May produce an allergic reaction.
diphenyl(2,4,6 trimethylbenzoyl) phosphine oxide	0.5 -1.5	75980-60-8 278-355-8 015-203-00-X		Skin sensitizer – 1B  Reproductive Toxicity – 1B	H317 May cause an allergic skin reaction. H360 May damage fertility or the unborn child.
orthophosphoric acid	0.4 - 0.7	7664-38-2 231-633-2 015-011-00-6	Eye Irrit. 2; H319: 10 % ≤ C < 25 % Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 %	May be corrosive to metals – 1 Acute toxicity (oral) – 4 Skin corrosion – 1B Eye corrosion - 1	H290 May be corrosive to metals.  H302 Harmful if swallowed.  H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
2,6-di-tert-butyl-p-cresol	< 0.3	128-37-0 204-881-4 -	M(Chronic) = 1	Aquatic Toxicity, chronic – 1	H410 Very toxic to aquatic life with long lasting effects.

## SECTION 4 – FIRST AID MEASURES

### 4.1 Description of First Aid Measures

**SKIN** Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**EYE** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**INHALATION** Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt, or waistband.

**INGESTION** Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in the recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt, or waistband.

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

**SKIN** Irritation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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EYE	Corrosive effects.
INHALATION	Irritation or corrosive effects. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
INGESTION	Irritation or corrosive effects.

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## SECTION 5 – FIRE FIGHTING MEASURES

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### 5.1 Extinguishing Media

SUITABLE Water fog, foam, extinguishing powder, or carbon dioxide.

NOT SUITABLE Do not use water jet.

### 5.2 Special Hazards arising from the Substance or Mixture

HAZARDS FROM THE SUBSTANCE / MIXTURE Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Reignition may occur.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS Oxides of carbon.

### 5.3 Advice for Firefighters

SPECIAL PRECAUTIONS FOR FIREFIGHTERS Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Reignition may occur.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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### 6.1 Personal precautions, protective equipment, and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not walk through spilled material. Avoid breathing vapour or mist. Provide adequate ventilation.

#### 6.1.1 For non-emergency personnel

Wear appropriate personal protective equipment. Collect and dispose of as soon as possible.

**SKIN** General purpose non-permeable gloves and overalls.

**FACE / EYES** Safety goggles.

**CLOTHING** No special requirements. Wash clothing thoroughly if contaminated.

**VENTILATION** If ventilation is poor use a self-contained breathing apparatus suitable for organic vapours.

#### 6.1.2 For emergency personnel

Wear appropriate personal protective equipment. Collect and dispose of as soon as possible.

**SKIN** General purpose non-permeable gloves and overalls.

**FACE / EYES** Safety goggles.

**CLOTHING** No special requirements. Wash clothing thoroughly if contaminated.

**VENTILATION** If ventilation is poor use a self-contained breathing apparatus suitable for organic vapours.

### 6.2 Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, air). Very toxic to the environment.

### 6.3 Method and material for containment and cleaning up

#### 6.3.1 Containment procedure

Containment is not always possible due to the fast-curing nature of the material; will solidify within seconds of being exposed to sunlight. If in an area not in sunlight, absorb with inert material and collect for disposal.

#### 6.3.2 Clean-up procedure

Small amounts should be cured by placing in sunlight in a thin layer (<2mm) and then disposed of in accordance with local regulations.

Large amounts would need to be incinerated in accordance with local regulations.

#### 6.3.3 Additional Information

See SECTION 13 for disposal considerations.

### 6.4 Reference to other sections

See SECTION 13 for disposal considerations.

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## SECTION 7 – HANDLING AND STORAGE

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### 7.1 Precautions for Safe handling

#### 7.1.1 Recommendations for safe handling and storage

Do not eat, drink, or smoke where this material is stored. Avoid release to the environment. Keep in the original container and keep tightly closed when not in use. Empty containers retain product residue and may be hazardous. Do not reuse containers.

#### 7.1.2 Advice on general occupational hygiene

Put on appropriate personal protective equipment (see SECTION 8). Do not eat, drink, or smoke when working with this material. Wash hands and face before eating, drinking, or smoking. Persons with a history of skin sensitization problems should not use this product. Do not get in eyes. Avoid skin contact as much as possible. Do not ingest. Avoid breathing vapours.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in the original container protected from sources of ignition or direct sunlight in a dry, cool (10-30°C) and well-ventilated area, away from incompatible materials, food and drink. Keep container tightly closed and sealed until ready to use. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Incompatible Materials: oxidising agents, acids

Packaging Material: Use original container.

### 7.3 Specific end use(s)

Not applicable.

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## SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

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### 8.1 Control Parameters

The DNEL (Derived No-Effect Level) for humans by inhalation, ingestion and dermal routes of exposure and the PNEC (Predicted No-Effect Concentration) for environmental exposure given below are not intended to be directly used for setting workplace or general population exposure limits. Due to differences in calculation methodology the DNEL will tend to be lower (sometimes significantly) than any corresponding health based-OEL for that chemical substance. Further,

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although DNELs (and PNEC's) are an indication of setting risk measures, it should be recognized that these limits do not have the same regulatory application as officially endorsed government OELs.

## DNEL

Ingredient (CAS No.)	Route of exposure		Exposure Limit	
			Workers	Consumers
7,7,9(or7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4)	Oral	ST, Local	Not applicable	No data available
		ST, systemic	Not applicable	No data available
		LT, Local	Not applicable	No data available
		LT, systemic	Not applicable	DNEL: 300 µg/kg bw/day (repeated dose)
	Dermal	ST, local	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)
		ST, systemic	No hazard identified.	No hazard identified.
		LT, Local	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)
		LT, systemic	DNEL: 1.3 mg/kg bw/day (repeated dose)	DNEL: 700 µg/kg bw/day (repeated dose)
	Inhalation	ST, Local	Hazard unknown	Hazard unknown
		ST, systemic	Hazard unknown	Hazard unknown
		LT, Local	Hazard unknown	Hazard unknown
		LT, systemic	DNEL: 3.3 mg/m <sup>3</sup> (repeated dose)	DNEL: 600 µg/m <sup>3</sup> (repeated dose)
2-hydroxyethyl methacrylate (868-77-9)	Oral	ST, Local	Not applicable	No hazard identified
		ST, systemic	Not applicable	No hazard identified
		LT, Local	Not applicable	No hazard identified
		LT, systemic	Not applicable	DNEL: 1.45 mg/m <sup>3</sup> (repeated dose)
	Dermal	ST, Local	No hazard identified	No hazard identified
		ST, systemic	No hazard identified	No hazard identified
		LT, Local	No hazard identified	No hazard identified
		LT, systemic	DNEL: 1.39 mg/kg bw/day (repeated dose)	DNEL: 830 µg/m <sup>3</sup> (repeated dose)
	Inhalation	ST, Local	No hazard identified	No hazard identified
		ST, systemic	No hazard identified	No hazard identified
		LT, Local	No hazard identified	No hazard identified
		LT, systemic	DNEL: 4.9 mg/m <sup>3</sup> (repeated dose)	DNEL: 1.45 mg/m <sup>3</sup> (repeated dose)

tert-butyl perbenzoate (614-45-9)	Oral	ST, Local	Not applicable	No data available
		ST, systemic	Not applicable	No data available
		LT, Local	Not applicable	No data available
		LT, systemic	Not applicable	No data available
	Dermal	ST, local	Low hazard (no threshold derived)	No data available
		ST, systemic	No hazard identified.	No data available
		LT, Local	High hazard (no threshold derived)	No data available
		LT, systemic	DNEL: 17.5 mg/kg bw/day (repeated dose)	No data available
	Inhalation	ST, Local	Low hazard (no threshold derived)	No data available
		ST, systemic	Low hazard (no threshold derived)	No data available
		LT, Local	Low hazard (no threshold derived)	No data available
		LT, systemic	DNEL: 24.7 mg/m <sup>3</sup> (repeated dose)	No data available
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (1187441-10-6)	Oral	ST, Local	Not applicable	No data available
		ST, systemic	Not applicable	No hazard identified
		LT, Local	Not applicable	No data available
		LT, systemic	Not applicable	DNEL: 500 µg/m <sup>3</sup> (repeated dose)
	Dermal	ST, Local	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)
		ST, systemic	No hazard identified	No hazard identified
		LT, Local	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)
		LT, systemic	DNEL: 1 mg/kg bw/day (repeated dose)	DNEL: 500 µg/m <sup>3</sup> (repeated dose)
	Inhalation	ST, Local	No hazard identified	No hazard identified
		ST, systemic	No hazard identified	No hazard identified
		LT, Local	No hazard identified	No hazard identified
		LT, systemic	DNEL: 7.05 mg/m <sup>3</sup> (repeated dose)	DNEL: 3.53 mg/m <sup>3</sup> (repeated dose)
diphenyl(2,4,6 trimethylbenzoyl) phosphine oxide (75980-60-8)	Oral	ST, Local	Not applicable	No hazard identified
		ST, systemic	Not applicable	No hazard identified
		LT, Local	Not applicable	No hazard identified
		LT, systemic	Not applicable	DNEL: 83.3 µg/m <sup>3</sup> (repeated dose)
	Dermal	ST, Local	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)
		ST, systemic	No hazard identified	No hazard identified
		LT, Local	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)
		LT, systemic	DNEL: 233 µg/kg bw/day (repeated dose)	DNEL: 83.3 µg/m <sup>3</sup> (repeated dose)
	Inhalation	ST, Local	No hazard identified	No hazard identified
		ST, systemic	No hazard identified	No hazard identified
		LT, Local	No hazard identified	No hazard identified
		LT, systemic	DNEL: 822 µg/m <sup>3</sup> (repeated dose)	DNEL: 145 µg/m <sup>3</sup> (repeated dose)

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orthophosphoric acid (7664-38-2)	Oral	ST, Local	Not applicable	No data available
		ST, systemic	Not applicable	Low hazard (no threshold derived)
		LT, Local	Not applicable	No data available
		LT, systemic	Not applicable	DNEL: 100 µg/kg bw/day (repeated dose)
	Dermal	ST, Local	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)
		ST, systemic	Hazard unknown	Hazard unknown
		LT, Local	Medium hazard (no threshold derived)	Medium hazard (no threshold derived)
		LT, systemic	Hazard unknown	Hazard unknown
	Inhalation	ST, Local	DNEL: 2 mg/m <sup>3</sup>	Medium hazard (no threshold derived)
		ST, systemic	Hazard unknown	Hazard unknown
		LT, Local	DNEL: 1 mg/m <sup>3</sup> (repeated dose)	DNEL: 360 µg/m <sup>3</sup> (skin; irritation/corrosion)
		LT, systemic	DNEL: 10.7 mg/m <sup>3</sup> (repeated dose)	DNEL: 4.57 mg/m <sup>3</sup> (repeated dose)
2,6-di-tert-butyl-p-cresol (128-37-0)	Oral	ST, Local	Not applicable	No data available
		ST, systemic	Not applicable	No hazard identified
		LT, Local	Not applicable	No data available
		LT, systemic	Not applicable	DNEL: 250 µg/kg bw/day (repeated dose)
	Dermal	ST, Local	No hazard identified.	No hazard identified.
		ST, systemic	No hazard identified.	No hazard identified.
		LT, Local	No hazard identified.	No hazard identified.
		LT, systemic	DNEL: 500 µg/kg bw/day (repeated dose)	DNEL: 250 µg/kg bw/day (repeated dose)
	Inhalation	ST, Local	No data available	No data available
		ST, systemic	No data available	No data available
		LT, Local	No data available	No data available
		LT, systemic	DNEL: 1.76 mg/kg bw/day (repeated dose)	DNEL: 435 µg/kg bw/day (repeated dose)

**PNEC**

Fresh water	Freshwater sediments	Marine water	Marine water sediments	Food chain	Sewage treatment	Soil (agricultural)	Air	Intermittent releases
7,7,9(or7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate (72869-86-4)								
10 µg/L	4.56 mg/kg dwt	1 µg/L	460 µg/kg dwt	No potential for bio-accumulation	3.61 mg/L	910 µg/kg dwt	No hazard identified	100 µg/L
2-hydroxyethyl methacrylate (868-77-9)								
482 µg/L	3.79 mg/kg dw	48.2 µg/L	3.79 mg/kg dw	No bio-accumulation potential	10 mg/L	476 µg/kg soil dw	No hazard identified	1 mg/L
tert-butyl perbenzoate (614-45-9)								
10.1 µg/L	280 µg/kg dwt	1.01 µg/L	28 µg/kg dwt	No potential for bio-accumulation	600 µg/L	49 µg/kg dwt	no hazard identified	8 µg/L

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2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide (1187441-10-6)								
165 µg/L	2.8 mg/kg dwt	16.5 µg/L	280 µg/kg dwt	No potential for bio-accumulation	400 µg/L	460 µg/kg dwt	No hazard identified	1.65 mg/L
diphenyl(2,4,6 trimethylbenzoyl)phosphine oxide (75980-60-8)								
1.4 µg/L	115 µg/kg dwt	140 ng/L	11.5 µg/kg dwt	No potential for bio-accumulation	No hazard identified	22.2 µg/kg dwt	No hazard identified	14 µg/L
orthophosphoric acid (7664-38-2)								
No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified
2,6-di-tert-butyl-p-cresol (128-37-0)								
199 ng/L	458.19 µg/kg dw	19.9 ng/L	45.82 µg/kg dw	16.67 mg/kg food	17 µg/L	53.9 µg/kg soil dw	No hazard identified	1.99 µg/L

## 8.2 Exposure Controls

### 8.2.1 Appropriate engineering controls

None required. Use in a well-ventilated area. If ventilation is poor use a self-contained breathing apparatus.

### 8.2.2 Personal Protection

**Skin** General purpose non-permeable gloves and overalls.

**Face / Eye** Avoid eye contact. Do not touch or rub eyes after contact with product. Wash hands thoroughly with soap and water first.

**Inhalation** Use outdoors or in a well-ventilated area.

**Ingestion** Do not eat, drink, or smoke while working with this product. Wash hands thoroughly with soap and water after using this product. Keep away from children.

**Thermal** None required when used as instructed.

**Other** Always wash hands with soap and water after use.

### 8.2.3 Environmental Protection

Avoid release to the environment. Contain and dispose of in accordance with local regulations.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 information on physical and chemical properties

Physical State	Liquid
Colour	Clear to slightly yellow
Odour	Ester like
Melting point / Freezing point (°C)	Technically impossible to determine for mixtures.
Boiling point, initial and range (°C)	No data available.
Flammability	Not flammable.
Explosion / Flammability limits	No data available.
Flash point (°C), closed cup	>100°C
Auto-ignition temperature (°C)	445°C for 7,7,9(or7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate portion.
Decomposition temperature (°C)	No data available. SADT 60°C for tert-butyl perbenzoate portion.
pH	No data available.
Kinematic Viscosity (at 23°C)	+/- 7 000 cSt.

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Solubility	No data available.
Partition co-efficient : n-octanol / water	No data available.
Vapour pressure	No data available.
Density and/or Relative density (at 23°C)	1.10 g/cm <sup>3</sup>
Relative Vapour density	No data available.
Particle characteristics	Not applicable.

## 9.2 Other information

### 9.2.1 Information with regards to physical Hazard Classes

No additional information available.

### 9.2.2 Other Safety Characteristics

Contains substance(s) under assessment as an endocrine disruptor.

Contains substances that may be toxic to reproduction.

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## SECTION 10 – STABILITY AND REACTIVITY

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### 10.1 Reactivity

Reacts with strong oxidising agents, and free radical initiators.

### 10.2 Chemical Stability

Stable under recommended storage conditions.

### 10.3 Possibility of Hazardous Reactions

Hazardous reactions may occur under certain conditions of storage or use.

### 10.4 Conditions to Avoid

Exposure to sunlight can cause material to polymerize.

### 10.5 Incompatible Materials

Strong oxidizing agents, and free radical initiators.

### 10.6 Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## SECTION 11 – TOXOLOGICAL INFORMATION

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### 11.1 Information on Hazard Classes

Ingredient (CAS No.)	Toxicological effect	Findings
7,7,9(or7,9,9)- trimethyl-4,13- dioxo-3,14-dioxo- 5,12- diazahexadecane- 1,16-diyl bismethacrylate (72869-86-4)	Acute Toxicity - oral	No adverse effect observed LD50 5 000 mg/kg bw
	Acute Toxicity - dermal	No adverse effect observed LD50 2 000 mg/kg bw
	Acute Toxicity - inhalation	No data available.
	Skin Corrosion/Irritation	No adverse effect observed (not irritating)

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	Serious Eye Damage/Irritation	No adverse effect observed (not irritating)
	Skin Sensitizer	Adverse effect observed (sensitising)
	Respiratory Sensitizer	No study available
	Germ Cell Mutagenicity	InVitro: Adverse effect observed (positive) InVivo: No study available
	Carcinogenicity	No data available.
	Reproductive Toxicity	ORAL: No adverse effect observed NOAEL 1 000 mg/kg bw/day (subacute, rat)
	Developmental / Teratogenic Toxicity	ORAL: No adverse effect observed NOAEL 1 000 mg/kg bw/day (subacute, rat)
	STOT - Single Exposure	No data available.
	STOT - Repeated Exposure	ORAL, SYSTEMIC: Adverse effect observed NOAEL 100 mg/kg bw/day (subacute, rat)
	Aspiration Hazard	No applicable toxicity data.
2-hydroxyethyl methacrylate <b>(868-77-9)</b>	Acute Toxicity - oral	No adverse effect observed LD50 5 000 mg/kg bw
	Acute Toxicity - dermal	No adverse effect observed LD50 5 000 mg/kg bw
	Acute Toxicity - inhalation	No applicable toxicity data. No known significant effects or critical hazards.
	Skin Corrosion/Irritation	No adverse effect observed (not irritating)
	Serious Eye Damage/Irritation	Adverse effect observed (irritating)
	Skin Sensitizer	Adverse effect observed (sensitising)
	Respiratory Sensitizer	No adverse effect observed (not sensitising)
	Germ Cell Mutagenicity	InVitro: Adverse effect observed (positive) InVivo: No adverse effect observed (negative)
	Carcinogenicity	No applicable toxicity data. No known significant effects or critical hazards.
	Reproductive Toxicity	No adverse effect observed NOAEL, oral 1 000 mg/kg bw/day (subacute, rat)
	Developmental / Teratogenic Toxicity	No applicable toxicity data. No known significant effects or critical hazards.
	STOT - Single Exposure	No applicable toxicity data. No known significant effects or critical hazards.
	STOT - Repeated Exposure	Adverse effect observed NOAEL 100 mg/kg bw/day (subacute, rat)
	Aspiration Hazard	No applicable toxicity data. No known significant effects or critical hazards.
tert-butyl perbenzoate <b>(614-45-9)</b>	Acute Toxicity - oral	No adverse effect observed Discriminating dose 2 000 mg/kg bw
	Acute Toxicity - dermal	No adverse effect observed Discriminating dose 2 000 mg/kg bw
	Acute Toxicity - inhalation	Adverse effect observed LC50 1.01 mg/L air
	Skin Corrosion/Irritation	Adverse effect observed (irritating)

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	Serious Eye Damage/Irritation	No adverse effect observed (not irritating)
	Skin Sensitizer	Adverse effect observed (sensitising)
	Respiratory Sensitizer	No study available
	Germ Cell Mutagenicity	InVitro: Adverse effect observed (positive) InVivo: No adverse effect observed (negative)
	Carcinogenicity	No applicable toxicity data.
	Reproductive Toxicity	ORAL: No adverse effect observed NOAEL 1 000 mg/kg bw/day (subacute, rat)
	Developmental / Teratogenic Toxicity	ORAL: No adverse effect observed NOAEL 300 mg/kg bw/day (subacute, rat)
	STOT - Single Exposure	No applicable toxicity data.
	STOT - Repeated Exposure	ORAL: No adverse effect observed NOAEL 500 mg/kg bw/day (subchronic, rat)
	Aspiration Hazard	No applicable toxicity data.
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide <b>(1187441-10-6)</b>	Acute Toxicity - oral	No adverse effect observed LD50 2 000 mg/kg bw
	Acute Toxicity - dermal	No applicable toxicity data.
	Acute Toxicity - inhalation	No applicable toxicity data.
	Skin Corrosion/Irritation	No adverse effect observed (not irritating)
	Serious Eye Damage/Irritation	Adverse effect observed (irritating)
	Skin Sensitizer	Adverse effect observed (sensitising)
	Respiratory Sensitizer	No study available
	Germ Cell Mutagenicity	InVitro: No adverse effect observed (negative) InVivo: No study available
	Carcinogenicity	No applicable toxicity data.
	Reproductive Toxicity	ORAL: No adverse effect observed NOAEL 1 000 mg/kg bw/day (subchronic, rat)
	Developmental / Teratogenic Toxicity	No applicable toxicity data.
	STOT - Single Exposure	No applicable toxicity data.
	STOT - Repeated Exposure	ORAL, SYSTEMIC: Adverse effect observed NOAEL 300 mg/kg bw/day (subchronic, rat)
	Aspiration Hazard	No applicable toxicity data.
diphenyl(2,4,6 trimethylbenzoyl) phosphine oxide <b>(75980-60-8)</b>	Acute Toxicity - oral	No applicable toxicity data
	Acute Toxicity - dermal	No applicable toxicity data
	Acute Toxicity - inhalation	No applicable toxicity data
	Skin Corrosion/Irritation	No adverse effect observed (not irritating)
	Serious Eye Damage/Irritation	No adverse effect observed (not irritating)
	Skin Sensitizer	Adverse effect observed (sensitising)

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	Respiratory Sensitizer	No study available
	Germ Cell Mutagenicity	InVitro: No adverse effect observed (negative) InVivo: No study available.
	Carcinogenicity	No applicable toxicity data
	Reproductive Toxicity	ORAL: Adverse effect observed NOAEL 60 mg/kg bw/day (subchronic, rat)
	Developmental / Teratogenic Toxicity	ORAL: Adverse effect observed NOAEL 150 mg/kg bw/day (subchronic, rat)
	STOT - Single Exposure	No applicable toxicity data
	STOT - Repeated Exposure	ORAL, SYSTEMIC: Adverse effect observed NOAEL 50 mg/kg bw/day (subacute, rat)
	Aspiration Hazard	No applicable toxicity data
orthophosphoric acid (7664-38-2)	Acute Toxicity - oral	No data available.
	Acute Toxicity - dermal	No data available.
	Acute Toxicity - inhalation	No data available.
	Skin Corrosion/Irritation	Adverse effect observed (corrosive)
	Serious Eye Damage/Irritation	Adverse effect observed (irritating)
	Skin Sensitizer	No study available
	Respiratory Sensitizer	No study available
	Germ Cell Mutagenicity	No data available.
	Carcinogenicity	No data available.
	Reproductive Toxicity	No data available.
	Developmental / Teratogenic Toxicity	ORAL: No adverse effect observed NOAEL 370 mg/kg bw/day (chronic, mouse).
	STOT - Single Exposure	No data available.
	STOT - Repeated Exposure	ORAL: Adverse effect observed LOAEL 155 mg/kg bw/day (subchronic, rat)
	Aspiration Hazard	No data available.
2,6-di-tert-butyl-p-cresol (128-37-0)	Acute Toxicity - oral	No adverse effect observed LD50 6 000 mg/kg bw
	Acute Toxicity - dermal	No adverse effect observed LD50 2 000 mg/kg bw
	Acute Toxicity - inhalation	No applicable toxicity data. No known significant effects or critical hazards.
	Skin Corrosion/Irritation	No adverse effect observed (not irritating)
	Serious Eye Damage/Irritation	No adverse effect observed (not irritating)
	Skin Sensitizer	No adverse effect observed (not sensitising)
	Respiratory Sensitizer	No applicable toxicity data. No known significant effects or critical hazards.
	Germ Cell Mutagenicity	InVitro: No adverse effect observed (negative) InVivo: No adverse effect observed (negative)
	Carcinogenicity	No applicable toxicity data. No known significant effects or critical hazards.

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	Reproductive Toxicity	Adverse effect observed NOAEL, oral 25 mg/kg bw/day (chronic, rat)
	Developmental / Teratogenic Toxicity	No applicable toxicity data. No known significant effects or critical hazards.
	STOT - Single Exposure	No applicable toxicity data. No known significant effects or critical hazards.
	STOT - Repeated Exposure	Adverse effect observed NOAEL, oral 25 mg/kg bw/day (chronic, rat)
	Aspiration Hazard	No applicable toxicity data. No known significant effects or critical hazards.

## 11.2 Information on Other Hazards

### 11.2.1 Endocrine Disrupting Properties

2,6-di-tert-butyl-p-cresol is under assessment as a possible endocrine disruptor on EDL List II (under assessment).

### 11.2.2 Other Information

No additional information available.

## SECTION 12 – ECOLOGICAL INFORMATION

### 12.1 Toxicity

Classified as Aquatic Toxicity – Acute category 2 based on >25% M × 10 × Acute 1 + Acute 2 ingredients. Classified as Aquatic Toxicity – Chronic category 2 based on >25% M × 10 Category 1 + Category 2 ingredients.

Please see Section 8.1 for PNECs on individual ingredients.

### 12.2 Persistence and Biodegradability

No data available for the mixture.

7,7,9(or7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate <b>(72869-86-4)</b>	Under test conditions no biodegradation observed (100%)
2-hydroxyethyl methacrylate <b>(868-77-9)</b>	Readily biodegradable in water (100%)
tert-butyl perbenzoate <b>(614-45-9)</b>	Readily biodegradable in water (100%).
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide <b>(1187441-10-6)</b>	Readily biodegradable in water (100%)
diphenyl(2,4,6 trimethylbenzoyl)phosphine oxide <b>(75980-60-8)</b>	Under test conditions no biodegradation observed (100%)
orthophosphoric acid <b>(7664-38-2)</b>	No data available.
2,6-di-tert-butyl-p-cresol <b>(128-37-0)</b>	Under test conditions, no biodegradation in water observed. (100%)

### 12.3 Bioaccumulative Potential

No data available for the mixture.

7,7,9(or7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate <b>(72869-86-4)</b>	No bioaccumulation potential. Koc at 20°C is 4 516.
2-hydroxyethyl methacrylate <b>(868-77-9)</b>	No data available.
tert-butyl perbenzoate <b>(614-45-9)</b>	No data available. Koc at 20°C is 239.
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide <b>(1187441-10-6)</b>	Low bioaccumulation potential. Koc at 20°C is 133.4.
diphenyl(2,4,6 trimethylbenzoyl)phosphine oxide <b>(75980-60-8)</b>	BCF 72. Koc at 20°C is 784.8.
orthophosphoric acid <b>(7664-38-2)</b>	No bioaccumulation potential.
2,6-di-tert-butyl-p-cresol <b>(128-37-0)</b>	BCF 1277. Koc at 20°C is 23 030.

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## 12.4 Mobility in Soil

Partially mobile in soil.

## 12.5 Results of PBT and vPvB assessment

No PBT or vPvB assessment has been carried out on the material.

## 12.6 Endocrine Disrupting Properties

2,6-di-tert-butyl-p-cresol is under assessment as a possible endocrine disruptor on EDL List II (under assessment).

## 12.7 Other Adverse Effects

2,6-di-tert-butyl-p-cresol is suspected to be toxic to reproduction.

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# SECTION 13 – DISPOSAL CONSIDERATIONS

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## 13.1 Waste Treatment Methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material (uncured) and its container must be disposed of in a safe way.

**Small amounts (during personal use)** React Parts A and B together and once cured, dispose of in accordance with local regulations.

**Large amounts** Contain and dispose of in accordance with local regulations. Mixing large amounts of Part A and Part B together creates an exothermic reaction and care should be taken to avoid uncontrolled heating and possible fire.

**EWC 20 01 27** MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS: separately collected fractions: paint, inks, adhesives and resins containing dangerous substances

**EWC (cured) 20 01 28** MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS: separately collected fractions: paint, inks, adhesives and resins other than those mentioned in 20 01 27

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# SECTION 14 – TRANSPORT INFORMATION

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**This product is not subject to transport regulations as per Special Provision 375**

## 14.5 Environmental Hazards

Aquatic Toxicity – Acute category 2 based on <25% Category 1 ingredients.

Aquatic Toxicity – Chronic category 2 based on >25% M×10×Category 1 + Category 2 ingredients.

## 14.6 Special Precautions for User

None known.

## 14.7 Maritime Transport in Bulk According to IMO instruments

Not applicable as never transported in bulk.



## SECTION 15 – REGULATORY INFORMATION

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

**REACH EC1907/2006 Annex XIII, XIV, XVII** 2,6-di-tert-butyl-p-cresol is under assessment as a possible endocrine disruptor on EDL List II. All other substance(s) in this product are not listed / not subject to restrictions.

**International Agency for Research on Cancer (IARC)** This substance(s) contains 2,6-di-tert-butyl-p-cresol that may be subject to restrictions.

**Australia Inventory of Industrial Chemicals (AIIC)** HEMA-phosphate is not listed. All other substance(s) in this product are listed.

**New Zealand Inventory (NZIoC)** All substance(s) in this product are listed.

**Canada Domestic Substances List (DSL) / Non-Domestic Substance List (NDSL)** HEMA-phosphate is not listed. All substance(s) in this product are listed.

**United States Inventory (TSCA 8b)** The substance(s) in this product are listed.

**California Proposition 65** The substance(s) in this product are not listed / not subject to restrictions.

**Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act (CAA)** Phosphoric acid is considered hazardous under CERCLA. All other substance(s) in this product are not listed / not subject to restrictions.

### 15.2 Chemical Safety Assessment

Not yet done.

## SECTION 16 – OTHER INFORMATION

Alternative names used on consumer packaging:

CAS No.	Ingredient Name (IUPAC)	Name used on Consumer Packaging
72869-86-4	7,7,9(or7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate	UDMA
868-77-9	2-hydroxyethyl methacrylate	Glycol methacrylate
614-45-9	tert-butyl perbenzoate	TBPB
1187441-10-6	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, reaction products with phosphorus oxide	HEMA-phosphate
75980-60-8	diphenyl(2,4,6 trimethylbenzoyl)phosphine oxide	TPO
7664-38-2	orthophosphoric acid	Phosphoric acid
128-37-0	2,6-di-tert-butyl-p-cresol	BHT

Changes from previous version:

Date changed	Section	Changes
2025.05.02	2.1	Reproductive Toxicity now category 1 not 2.
	2, 3, 9, 14, 15	Formulation change and associated changes to information.
2023.06.21		Major changes to comply with updated Regulation (EU) 2020/878.
2016.10.24		Updated to GHS.

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## Abbreviations used:

<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods on Inland Waterways
<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ATE</b>	Acute Toxicity Estimate
<b>BCF</b>	Bioaccumulation factor
<b>CAS No.</b>	Chemical Abstract Services Number
<b>DNEL</b>	Derived no-effect level
<b>EC3</b>	Effective concentration required to produce a three-fold increase in the stimulation index
<b>EC No.</b>	European Community Number
<b>ECHA</b>	European Chemicals Agency
<b>EWC</b>	European Waste Code
<b>GCL</b>	Generic concentration limit
<b>GLP</b>	Good Laboratory Practice
<b>HSNO</b>	Hazardous Substances and New Organisms Act
<b>IATA</b>	International Air Transport Association
<b>IBC</b>	International Bulk Container
<b>ICAO</b>	International Civil Aviation Authority
<b>IMDG</b>	International Maritime Dangerous Goods
<b>IMO</b>	International Maritime Organization
<b>LD50</b>	Lethal dose to 50% of test population
<b>LLNA</b>	Local lymph node assay
<b>LT</b>	Long term
<b>mg/kg bw</b>	milligrams per kilogram of body weight
<b>mg/kg dwt</b>	milligrams per kilogram dry weight
<b>NOAEL</b>	No observed adverse effect level
<b>OECD</b>	Organisation for Economic Co-operation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, Bioaccumulative and Toxic
<b>PNEC</b>	Predicted no-effect concentration
<b>RID</b>	European Agreements Concerning the International Carriage of Dangerous Goods by Rail
<b>SCBA</b>	Self-contained breathing apparatus
<b>SCL</b>	Specific Concentration Limit
<b>ST</b>	Short term
<b>STOT-SE</b>	Specific target Organ Toxicity - Single Exposure
<b>UN</b>	United Nations
<b>vPvB</b>	very Persistent and very Bioaccumulative