

## Ultrashine UV FPG 8244

Version 6.0      Revision Date: 21.01.2020      SDS Number: 102000023166      Print Date: 07.08.2020  
Date of first issue: 29.06.2015

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

#### 1.1 Product identifier

Trade name : Ultrashine UV FPG 8244  
Product code : 021733HW0

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

This information is not available.

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

Company :  
  
E-mail address of person responsible for the SDS : msds.eckart@altana.com

#### 1.4 Emergency telephone number

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :  

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version  
6.0

Revision Date:  
21.01.2020

SDS Number:  
102000023166

Print Date: 07.08.2020  
Date of first issue: 29.06.2015

Precautionary statements	:	<b>Prevention:</b>	
		P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
		P273	Avoid release to the environment.
		P280	Wear protective gloves/ eye protection/ face protection.
		<b>Response:</b>	
		P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.		
P362 + P364	Take off contaminated clothing and wash it before reuse.		

Hazardous components which must be listed on the label:

Propylidynetrimethanol, ethoxylated, esters with acrylic acid  
Alkoxylated multifunctional acrylate oligomer  
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide  
Glycerol, propoxylated, esters with acrylic acid  
2,2-bis(acryloyloxymethyl)butyl acrylate

### 2.3 Other hazards

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

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification REGULATION (EC) No 1272/2008	Concentration (% w/w)
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	28961-43-5 500-066-5	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 25 - < 50
2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane	144086-02-2 604-394-0	Eye Irrit. 2A; H319 Aquatic Chronic 2; H411	>= 25 - < 50
Alkoxylated multifunctional acrylate oligomer	104634-06-2	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317	>= 1 - < 10
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7 423-340-5 01-2119489401-38	Skin Sens. 1; H317 Aquatic Chronic 4; H413	>= 2.5 - < 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1 500-114-5	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - < 10
2-hydroxy-1-(4-(4-(2-hydroxy-2-	474510-57-1	STOT RE 2; H373	>= 2.5 - < 10

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version 6.0      Revision Date: 21.01.2020      SDS Number: 102000023166      Print Date: 07.08.2020  
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methylpropionyl)benzyl)phenyl)- 2-methylpropan-1-one	444-860-9 01-2119904050-59	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
1-isopropyl-2,2- dimethyltrimethylene diisobutyrate	6846-50-0 229-934-9 01-2119451093-47	Repr. 2; H361d Aquatic Chronic 3; H412	$\geq 1 - < 2.5$
aluminium powder (stabilised)	7429-90-5 231-072-3 01-2119529243-45	Flam. Sol. 1; H228	$\geq 1 - < 10$
2,2-bis(acryloyloxymethyl)butyl acrylate	15625-89-5 239-701-3 01-2119489896-11	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0.1 - < 0.25$

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

- Risks : May cause an allergic skin reaction.  
Causes serious eye irritation.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version	Revision Date:	SDS Number:	Print Date: 07.08.2020
6.0	21.01.2020	102000023166	Date of first issue: 29.06.2015

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### 4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry sand  
Dry powder

Unsuitable extinguishing media : High volume water jet  
  
High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version 6.0      Revision Date: 21.01.2020      SDS Number: 102000023166      Print Date: 07.08.2020  
Date of first issue: 29.06.2015

### 6.4 Reference to other sections

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

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

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
aluminium powder (stabilised)	7429-90-5	TWA (Inhalable)	10 mg/m <sup>3</sup>	GB EH40
Further information	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are			

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version  
6.0

Revision Date:  
21.01.2020

SDS Number:  
102000023166

Print Date: 07.08.2020  
Date of first issue: 29.06.2015

	exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.		
	TWA (Respirable)	4 mg/m <sup>3</sup>	GB EH40
Further information	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.		
	TWA (inhalable dust)	10 mg/m <sup>3</sup>	GB EH40
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.		
	TWA (Respirable dust)	4 mg/m <sup>3</sup>	GB EH40
Further information	For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure		

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version  
6.0

Revision Date:  
21.01.2020

SDS Number:  
102000023166

Print Date: 07.08.2020  
Date of first issue: 29.06.2015

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### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Workers	Skin contact	Long-term systemic effects	0.8 mg/kg
	Workers	Inhalation	Long-term systemic effects	16.2 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	0.5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.9 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	1.4 mg/kg
2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane	Workers	Inhalation	Long-term systemic effects	5.87 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	3.33 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.45 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	1.67 mg/kg
	Consumers	Ingestion	Long-term systemic effects	0.83 mg/kg
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Workers	Inhalation	Long-term systemic effects	21 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	3.0 mg/kg
	Consumers	Inhalation	Long-term systemic effects	5.2 mg/m <sup>3</sup>
Consumers	Dermal	Long-term systemic effects	1.5 mg/kg	



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version  
6.0

Revision Date:  
21.01.2020

SDS Number:  
102000023166

Print Date: 07.08.2020  
Date of first issue: 29.06.2015

	Consumers	Oral	Long-term systemic effects	1.5 mg/kg
Glycerol, propoxylated, esters with acrylic acid	Workers	Inhalation	Long-term systemic effects	16.22 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	1.92 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.87 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	1.15 mg/kg
	Consumers	Oral	Long-term systemic effects	1.39 mg/kg
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	Workers	Skin contact	Long-term systemic effects	5.00 mg/kg
	Workers	Inhalation	Long-term systemic effects	17.62 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	5.00 mg/kg
	Consumers	Skin contact	Long-term systemic effects	5.00 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.35 mg/m <sup>3</sup>
aluminium powder (stabilised)	Workers	Inhalation	Long-term local effects	3.72 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	3.95 mg/kg
2,2-bis(acryloyloxymethyl) butyl acrylate	Workers	Inhalation	Long-term systemic effects	16.2 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	1.39 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.9 mg/m <sup>3</sup>

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Soil	0.006 mg/kg
	Fresh water	0.002 mg/l
	Fresh water sediment	0.008 mg/kg
	STP	10 mg/l
	Marine water	0.00 mg/l
2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane	Marine sediment	0.001 mg/kg
	Fresh water	0.0079 mg/l
	Marine water	0.00079 mg/l
	Fresh water sediment	0.119 mg/kg



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version  
6.0

Revision Date:  
21.01.2020

SDS Number:  
102000023166

Print Date: 07.08.2020  
Date of first issue: 29.06.2015

	Marine sediment	0.0119 mg/kg
	Soil	0.0192 mg/kg
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Fresh water	1 µg/l
	Marine water	1 µg/l
	STP	1 mg/l
	Fresh water sediment	0.712 mg/kg
	Marine sediment	0.712 mg/kg
	Soil	20 mg/kg
Glycerol, propoxylated, esters with acrylic acid	Fresh water	0.00574 mg/l
	Marine water	0.000574 mg/l
	Fresh water sediment	0.01697 mg/kg
	Marine sediment	0.001697 mg/kg
	STP	10 mg/l
	Soil	0.00111 mg/kg
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	Fresh water	0.014 mg/l
	Marine water	0.0014 mg/l
	Fresh water sediment	5.29 mg/kg
	Soil	1.05 mg/kg
	STP	3 mg/l
	Marine sediment	0.529 mg/kg
	oral (secondary poisoning)	83.3 mg/kg
aluminium powder (stabilised)	Fresh water	0.0749 mg/l
	clarification plant	20 mg/l
2,2-bis(acryloyloxymethyl)butyl acrylate	Soil	0.0043 mg/kg
	Fresh water	0.00147 mg/l
	Fresh water sediment	0.0062 mg/kg
	Marine water	0.000147 mg/l
	Marine sediment	0.00062 mg/kg
	STP	6.25 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Wear face-shield and protective suit for abnormal processing problems.

Hand protection  
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version  
6.0

Revision Date:  
21.01.2020

SDS Number:  
102000023166

Print Date: 07.08.2020  
Date of first issue: 29.06.2015

---

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: silver
Odour	: characteristic
Odour Threshold	: No data available
pH	: No data available
Freezing point	: No data available
Boiling point/boiling range	: > 100 °C
Flash point	: > 100 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Self-ignition	: No data available
Auto-ignition temperature	: No data available
Smoldering temperature	: No data available
Decomposition temperature	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: No data available
Bulk density	: No data available
Water solubility	: No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version 6.0	Revision Date: 21.01.2020	SDS Number: 102000023166	Print Date: 07.08.2020 Date of first issue: 29.06.2015
----------------	------------------------------	-----------------------------	---

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Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products

Contact with water or humid air : This information is not available.

Thermal decomposition : This information is not available.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version 6.0      Revision Date: 21.01.2020      SDS Number: 102000023166      Print Date: 07.08.2020  
Date of first issue: 29.06.2015

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### Components:

#### **phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

#### **2-hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

#### **1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

Not classified based on available information.

### Product:

Remarks: May cause skin irritation and/or dermatitis.

### Components:

#### **2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane:**

Remarks: May cause skin irritation in susceptible persons.

#### **Alkoxyated multifunctional acrylate oligomer:**

Result: Skin irritation

#### **Glycerol, propoxylated, esters with acrylic acid:**

Remarks: May cause skin irritation and/or dermatitis.

#### **1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

Species: Rabbit  
Exposure time: 4 h  
Method: OECD Test Guideline 404  
Result: No skin irritation

#### **2,2-bis(acryloyloxymethyl)butyl acrylate:**

Result: Skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version  
6.0

Revision Date:  
21.01.2020

SDS Number:  
102000023166

Print Date: 07.08.2020  
Date of first issue: 29.06.2015

---

### **Product:**

Remarks: Eye irritation

### **Components:**

#### **Propylidyntrimethanol, ethoxylated, esters with acrylic acid:**

Result: Irritating to eyes.

#### **2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane:**

Remarks: May cause irreversible eye damage.

#### **Alkoxyated multifunctional acrylate oligomer:**

Result: Eye irritation

#### **Glycerol, propoxylated, esters with acrylic acid:**

Remarks: Eye irritation

#### **1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

Species: Rabbit

Exposure time: 72 h

Method: OECD Test Guideline 405

Result: No eye irritation

#### **2,2-bis(acryloyloxymethyl)butyl acrylate:**

Result: Eye irritation

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Product:**

Remarks: Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

### **Components:**

#### **Propylidyntrimethanol, ethoxylated, esters with acrylic acid:**

Result: May cause sensitisation by skin contact.

Remarks: Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

#### **Alkoxyated multifunctional acrylate oligomer:**

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version 6.0	Revision Date: 21.01.2020	SDS Number: 102000023166	Print Date: 07.08.2020 Date of first issue: 29.06.2015
----------------	------------------------------	-----------------------------	---

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Result: Probability or evidence of high skin sensitisation rate in humans

### **Glycerol, propoxylated, esters with acrylic acid:**

Remarks: Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

### **2,2-bis(acryloyloxymethyl)butyl acrylate:**

Result: May cause sensitisation by skin contact.

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

### **Further information**

#### **Product:**

Remarks: No data available

#### **Components:**

#### **Propylidynetrimethanol, ethoxylated, esters with acrylic acid:**

Remarks: No data available

#### **2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane:**

Remarks: No data available

#### **Glycerol, propoxylated, esters with acrylic acid:**

Remarks: No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version 6.0      Revision Date: 21.01.2020      SDS Number: 102000023166      Print Date: 07.08.2020  
Date of first issue: 29.06.2015

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **Propylidynetrimethanol, ethoxylated, esters with acrylic acid:**

Toxicity to daphnia and other aquatic invertebrates : (Daphnia (water flea)): 10,232.73 mg/l

##### **1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

Toxicity to daphnia and other aquatic invertebrates : (Daphnia (water flea)): 2.46 mg/l

##### **Ecotoxicology Assessment**

Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting effects.

##### **2,2-bis(acryloyloxymethyl)butyl acrylate:**

##### **Ecotoxicology Assessment**

Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

##### Components:

##### **2-Propenoic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, methyloxirane and oxirane:**

Partition coefficient: n-octanol/water : log Pow: 2.17 - 2.61

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

##### Product:

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..

#### 12.6 Other adverse effects

##### Product:

Additional ecological : An environmental hazard cannot be excluded in the event of





# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version 6.0      Revision Date: 21.01.2020      SDS Number: 102000023166      Print Date: 07.08.2020  
Date of first issue: 29.06.2015

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**IMDG** : (2-hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one)  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(2-hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one)

**IATA** : Environmentally hazardous substance, liquid, n.o.s.  
(2-hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one)

### 14.3 Transport hazard class(es)

**ADR** : 9  
**IMDG** : 9  
**IATA** : 9

### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

**IMDG**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Class 9 - Miscellaneous dangerous substances and articles

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Class 9 - Miscellaneous dangerous substances and articles

### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : yes

**IMDG**  
Marine pollutant : yes

**IATA (Passenger)**  
Environmentally hazardous : yes

**IATA (Cargo)**  
Environmentally hazardous : yes

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version	Revision Date:	SDS Number:	Print Date: 07.08.2020
6.0	21.01.2020	102000023166	Date of first issue: 29.06.2015

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### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

### 15.2 Chemical safety assessment

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## SECTION 16: Other information

### Full text of H-Statements

H228 : Flammable solid.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H361d : Suspected of damaging the unborn child.  
H373 : May cause damage to organs through prolonged or repeated exposure.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H411 : Toxic to aquatic life with long lasting effects.  
H412 : Harmful to aquatic life with long lasting effects.  
H413 : May cause long lasting harmful effects to aquatic life.

### Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Irrit. : Eye irritation  
Flam. Sol. : Flammable solids  
Repr. : Reproductive toxicity  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
STOT RE : Specific target organ toxicity - repeated exposure  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Ultrashine UV FPG 8244

Version	Revision Date:	SDS Number:	Print Date: 07.08.2020
6.0	21.01.2020	102000023166	Date of first issue: 29.06.2015

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GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN