

Greppmayr GmbH  
82061 Neuried

Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 1 / 17

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

### 1.1 Product identifier

**Unguisan Blue Light Primer**

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

#### 1.2.1 Relevant uses

See product information.

#### 1.2.2 Uses advised against

None known.

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

<b>Company</b>	Greppmayr GmbH Hainbuchenring 4 82061 Neuried / GERMANY Phone +49 (89) 759 69 69-0 Fax +49 (89) 759 69 69-69 Homepage <a href="http://www.greppmayr.de">www.greppmayr.de</a> E-mail <a href="mailto:info@greppmayr.de">info@greppmayr.de</a>
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#### Address enquiries to

<b>Technical information</b>	<a href="mailto:info@greppmayr.de">info@greppmayr.de</a>
<b>Safety Data Sheet</b>	<a href="mailto:sdb@chemiebuero.de">sdb@chemiebuero.de</a>

### 1.4 Emergency telephone number

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Skin Corr. 1A: H314 Causes severe skin burns and eye damage.  
Eye Dam. 1: H318 Causes serious eye damage.  
Skin Sens. 1: H317 May cause an allergic skin reaction.  
STOT SE 3: H335 May cause respiratory irritation.  
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

#### Hazard pictograms



#### Signal word

DANGER

#### Contains:

2,2'-Ethylenedioxydiethyl dimethacrylate  
(1-Methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate  
Methacrylic acid  
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

#### Hazard statements

H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P261 Avoid breathing mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection / face protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
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 / doctor.

Greppmayr GmbH  
82061 Neuried

Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 2 / 17

### 2.3 Other hazards

<b>Human health dangers</b>	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
<b>Environmental hazards</b>	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. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
<b>Other hazards</b>	Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
10 - 25	2,2'-Ethylenedioxydiethyl dimethacrylate CAS: 109-16-0, EINECS/ELINCS: 203-652-6, Reg-No.: 01-2119969287-21-XXXX GHS/CLP: Skin Sens. 1: H317
10 - < 20	(1-Methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate CAS: 42978-66-5, EINECS/ELINCS: 256-032-2, EU-INDEX: 607-249-00-X, Reg-No.: 01-2119484613-34-XXXX GHS/CLP: Skin Sens. 1: H317 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - STOT SE 3: H335 - Aquatic Chronic 2: H411 SCL [%]: >= 10: STOT SE 3: H335
5 - 10	Methacrylic acid CAS: 79-41-4, EINECS/ELINCS: 201-204-4, EU-INDEX: 607-088-00-5 GHS/CLP: Acute Tox. 4: H302 H332 - Acute Tox. 3: H311 - Skin Corr. 1A: H314 - Eye Dam. 1: H318 - STOT SE 3: H335 SCL [%]: >= 1: STOT SE 3: H335
0.1 - < 1	Methyl methacrylate CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6, Reg-No.: 01-2119452498-28-XXXX GHS/CLP: Flam. Liq. 2: H225 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - STOT SE 3: H335
0.1 - < 0.1	Methyl benzoylformate CAS: 15206-55-0, EINECS/ELINCS: 239-263-3, Reg-No.: 01-2120101338-67-XXXX GHS/CLP: Skin Sens. 1: H317
0.25 - < 1	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide CAS: 75980-60-8, EINECS/ELINCS: 278-355-8, EU-INDEX: 015-203-00-X GHS/CLP: Aquatic Chronic 2: H411 - Repr. 2: H361f - Skin Sens. 1B: H317

#### Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
For full text of H-statements: see SECTION 16.

Greppmayr GmbH

82061 Neuried

Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 3 / 17

**SECTION 4: First aid measures****4.1 Description of first aid measures**

<b>General information</b>	Take off contaminated clothing and wash before reuse. Adhere to personal protective measures when giving first aid.
<b>Inhalation</b>	Ensure supply of fresh air. Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with soap and water. Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor immediately. Shield unaffected eye.
<b>Ingestion</b>	Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Consult a doctor immediately.

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

Allergic reactions  
Shortness of breath  
Cough

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

Treat symptomatically.

**SECTION 5: Fire-fighting measures****5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Alcohol-resistant foam. Carbon dioxide. Dry powder. Water spray jet.
<b>Extinguishing media that must not be used</b>	Full water jet

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

Risk of formation of toxic pyrolysis products.  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)  
Phosphorus oxides (PO<sub>x</sub>).  
Nitrogen oxides (NO<sub>x</sub>).

**5.3 Advice for firefighters**

Use self-contained breathing apparatus.  
  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear suitable protective equipment. For personal protection see SECTION 8.  
Ensure adequate ventilation.  
Keep away from all sources of ignition.  
Remove persons to safety.

## 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.  
Suppress gases/vapours/mists with water spray jet.

## 6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).  
Dispose of absorbed material in accordance within the regulations.

## 6.4 Reference to other sections

See SECTION 7+8+13

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Use only in well-ventilated areas.  
Provide suitable vacuuming at the processing area.  
Place the container in an upright position and protect it against falling over.  
Open and handle container with care.  
Avoid contact with eyes and skin. Use personal protective equipment.  
Keep away from open flames, hot surfaces and sources of ignition.  
Do not smoke.  
Take off contaminated clothing and wash before reuse.  
Do not eat, drink, smoke or take drugs at work.  
Wash hands before breaks and after work.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original tightly closed container.  
Do not store together with oxidizing agents.  
Do not store together with reducing agents.  
Do not store together with acids and alkalies.  
Do not store together with food and animal food/diet.  
Keep container tightly closed.  
Keep container in a well-ventilated place.  
Protect from heat/overheating and from sun.  
Keep in a cool place.  
Protect from light.

## 7.3 Specific end use(s)

See product use, SECTION 1.2

Greppmayr GmbH  
82061 Neuried

Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 5 / 17

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (GB)

Substance
Methacrylic acid
CAS: 79-41-4, EINECS/ELINCS: 201-204-4, EU-INDEX: 607-088-00-5
Long-term exposure: 20 ppm, 72 mg/m <sup>3</sup>
Short-term exposure (15-minute): 40 ppm, 143 mg/m <sup>3</sup>
Methyl methacrylate
CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6, Reg-No.: 01-2119452498-28-XXXX
Long-term exposure: 50 ppm, 208 mg/m <sup>3</sup>
Short-term exposure (15-minute): 100 ppm, 416 mg/m <sup>3</sup>

#### Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Methyl methacrylate
CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6, Reg-No.: 01-2119452498-28-XXXX
Eight hours: 50 ppm
Short-term (15-minute): 100 ppm

#### DNEL

Substance
Methyl methacrylate, CAS: 80-62-6
Industrial, inhalative, Long-term - local effects, 208 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 13.67 mg/kg bw/d
Industrial, dermal, Long-term - local effects, 1.5 mg/cm <sup>2</sup>
Industrial, dermal, Acute - local effects, 1.5 mg/cm <sup>2</sup>
Industrial, inhalative, Acute - local effects, 416 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 348.4 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 8.2 mg/kg bw/day
general population, inhalative, Acute - local effects, 208 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 74.3 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 104 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 8.2 mg/kg bw/d
general population, dermal, Long-term - local effects, 1.5 mg/cm <sup>2</sup>
general population, dermal, Acute - local effects, 1.5 mg/cm <sup>2</sup>
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
Industrial, dermal, Long-term - systemic effects, 13.9 mg/kg bw/d (AF=72)
Industrial, inhalative, Long-term - systemic effects, 48.5 mg/m <sup>3</sup> (AF=18)
general population, inhalative, Long-term - systemic effects, 14.5 mg/m <sup>3</sup> (AF=69)
general population, oral, Long-term - systemic effects, 8.33 mg/kg bw/d (AF=120)
general population, dermal, Long-term - systemic effects, 8.33 mg/kg bw/d (AF=120)
(1-Methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate, CAS: 42978-66-5
Industrial, inhalative, Long-term - systemic effects, 2.35 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 1.7 mg/kg bw/day
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, CAS: 75980-60-8

Greppmayr GmbH

82061 Neuried

Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 6 / 17

Industrial, inhalative, Long-term - systemic effects, 0.822 mg/m<sup>3</sup>

Industrial, dermal, Long-term - systemic effects, 0.233 mg/kg bw/day

general population, oral, Long-term - systemic effects, 83.3 µg/kg bw/day

general population, inhalative, Long-term - systemic effects, 0.145 mg/m<sup>3</sup>

general population, dermal, Long-term - systemic effects, 83.3 µg/kg bw/day

**PNEC**

Substance

Methyl methacrylate, CAS: 80-62-6

seawater, 0.094 mg/L

sewage treatment plants (STP), 10 mg/L

sediment (freshwater), 10.2 mg/kg sediment dw

sediment (seawater), 1.48 mg/kg soil dw

sediment (seawater), 0.102 mg/kg sediment dw

freshwater, 0.94 mg/L

2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0

soil, 0.027 mg/kg dw

freshwater, 0.016 mg/L (AF=1000)

seawater, 0.002 mg/L (AF=10 000)

sewage treatment plants (STP), 1.7 mg/L (AF=10)

sediment (freshwater), 0.185 mg/kg dw

sediment (seawater), 0.018 mg/kg dw

(1-Methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate, CAS: 42978-66-5

seawater, 0 mg/L

sewage treatment plants (STP), 10 mg/L

sediment (freshwater), 0.487 mg/kg sediment dw

sediment (seawater), 0.049 mg/kg sediment dw

soil, 0.095 mg/kg soil dw

freshwater, 0.005 mg/L

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, CAS: 75980-60-8

soil, 22.2 µg/kg soil dw

freshwater, 1.4 µg/L

seawater, 0.14 µg/L

sediment (freshwater), 0.115 mg/kg sediment dw

sediment (seawater), 0.0115 mg/kg sediment dw

Greppmayr GmbH  
82061 Neuried

Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 7 / 17

## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. 0.11 mm. NBR: acrylonitrile butadiene rubber, >30 min (EN 374-1/-2/-3).
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	Comply with applicable environmental regulations limiting discharge to air, water and soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	liquid
<b>Color</b>	clear
<b>Odor</b>	characteristic
<b>Odour threshold</b>	No information available.
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	No information available.
<b>Flash point [°C]</b>	No information available.
<b>Flammability (solid, gas) [°C]</b>	not applicable
<b>Lower explosion limit</b>	No information available.
<b>Upper explosion limit</b>	No information available.
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/cm<sup>3</sup>]</b>	No information available.
<b>Relative density</b>	No information available.
<b>Bulk density [kg/m<sup>3</sup>]</b>	not applicable
<b>Solubility in water</b>	insoluble
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient [n-octanol/water]</b>	not applicable
<b>Kinematic viscosity</b>	No information available.
<b>Relative vapour density</b>	No information available.
<b>Evaporation speed</b>	No information available.
<b>Melting point [°C]</b>	No information available.
<b>Auto-ignition temperature</b>	not self-igniting
<b>Decomposition temperature [°C]</b>	No information available.
<b>Particle characteristics</b>	not applicable

## 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Risk of polymerisation.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Sensitivity to light.

### 10.5 Incompatible materials

Oxidizing agent  
Reducing agent  
Acids  
Alkalies  
Radical initiator

### 10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications.  
In the event of fire: See SECTION 5.



Greppmayr GmbH  
82061 Neuried

Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 9 / 17

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Methyl methacrylate, CAS: 80-62-6
LD50, oral, Rat, > 5000 mg/kg (OECD 401)
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
LD50, oral, Rat, 2000 - 5000 mg/kg bw
Methacrylic acid, CAS: 79-41-4
LD50, oral, Rat, 1320 mg/kg, OECD 401
(1-Methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate, CAS: 42978-66-5
LD50, oral, Rat, > 3000 mg/kg (IUCLID)
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, CAS: 75980-60-8
LD50, oral, Rat, > 5000 mg/kg (OECD 401)
Methyl benzoylformate, CAS: 15206-55-0
LD50, oral, Rat, > 5000 mg/kg, OECD 401

#### Acute dermal toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Methyl methacrylate, CAS: 80-62-6
LD50, dermal, Rabbit, > 5000 mg/kg
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
LD50, dermal, mouse, > 2000 mg/kg bw
Methacrylic acid, CAS: 79-41-4
LD50, dermal, Rabbit, 500 - 1000 mg/kg
(1-Methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate, CAS: 42978-66-5
LD50, dermal, Rabbit, > 2000 mg/kg (IUCLID)
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, CAS: 75980-60-8
LD50, dermal, Rat, > 2000 mg/kg (OECD 402)
Methyl benzoylformate, CAS: 15206-55-0
LD50, dermal, Rat, > 2000 mg/kg, OECD 402

#### Acute inhalational toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Methyl methacrylate, CAS: 80-62-6
LC50, inhalative, Rat, 29.8 mg/l
Methacrylic acid, CAS: 79-41-4
LC50, inhalation (vapour), Rat, 7.1 mg/L, OECD 403, 4h

Greppmayr GmbH

82061 Neuried

Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 10 / 17

**Serious eye damage/irritation**Risk of serious damage to eyes.  
Calculation method

Substance
Methyl methacrylate, CAS: 80-62-6
Eye, non-irritating
Methacrylic acid, CAS: 79-41-4
Harmonised classification, Causes serious eye damage.
(1-Methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate, CAS: 42978-66-5
Eye, irritant
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, CAS: 75980-60-8
Eye, non-irritating
Methyl benzoylformate, CAS: 15206-55-0
non-irritating

**Skin corrosion/irritation**Product is caustic.  
Calculation method

Substance
Methyl methacrylate, CAS: 80-62-6
dermal, irritant
Methacrylic acid, CAS: 79-41-4
Harmonised classification, corrosive
(1-Methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate, CAS: 42978-66-5
dermal, irritant
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, CAS: 75980-60-8
dermal, non-irritating
Methyl benzoylformate, CAS: 15206-55-0
non-irritating

**Respiratory or skin sensitisation**May cause an allergic skin reaction.  
Calculation method

Substance
Methyl methacrylate, CAS: 80-62-6
inhalative, no adverse effect observed
dermal, sensitising
(1-Methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate, CAS: 42978-66-5
dermal, sensitising
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, CAS: 75980-60-8
dermal, sensitising
Methyl benzoylformate, CAS: 15206-55-0
dermal, sensitising

**Specific target organ toxicity —  
single exposure**May cause respiratory irritation.  
Classification was carried out based on substance-specific concentration limits.

Substance
Methyl methacrylate, CAS: 80-62-6
inhalative, irritant
Methacrylic acid, CAS: 79-41-4
inhalative, Harmonised classification, irritant

Greppmayr GmbH

82061 Neuried

Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 11 / 17

**Specific target organ toxicity — repeated exposure** Based on the available information, the classification criteria are not fulfilled.

Substance
Methyl methacrylate, CAS: 80-62-6
NOAEL, oral, Rat, 124 mg/kg bw/day (chronic), no adverse effect observed
NOAEC, inhalative, Rat, 2080 mg/m <sup>3</sup> (chronic), no adverse effect observed
(1-Methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate, CAS: 42978-66-5
NOAEL, dermal, Rat, 66.7 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.
NOAEL, oral, Rat, 375 mg/kg bw/day (subacute), no adverse effect observed
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, CAS: 75980-60-8
NOAEL, oral, Rat, 100 mg/kg bw/day (90 days), OECD 408, The effects observed are not sufficient for classification.

**Mutagenicity** Based on the available information, the classification criteria are not fulfilled.

Substance
Methyl methacrylate, CAS: 80-62-6
in vivo, no adverse effect observed
in vitro, The effects observed are not sufficient for classification.
(1-Methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate, CAS: 42978-66-5
in vivo, negativ
in vitro, negativ
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, CAS: 75980-60-8
in vitro, negativ
Methyl benzoylformate, CAS: 15206-55-0
in vitro, negativ

**Reproduction toxicity** Based on the available information, the classification criteria are not fulfilled.

Substance
Methyl methacrylate, CAS: 80-62-6
NOAEL, oral, Rabbit, 450 mg/kg bw/day (subacute), no adverse effect observed
NOAEC, inhalative, Rat, 8 300 mg/m <sup>3</sup> (subacute), no adverse effect observed
(1-Methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate, CAS: 42978-66-5
NOAEL, oral, Rat, 450 mg/kg bw/day (subchronic), no adverse effect observed, Effect on developmental toxicity,
NOAEL, oral, Rat, 100 mg/kg bw/day (subchronic), no adverse effect observed, Effect on fertility,
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, CAS: 75980-60-8
NOAEL, oral, Rat, 150 mg/kg bw/d, OECD 414, adverse effect observed, Effect on developmental toxicity,
NOAEL, oral, Rat, 60 mg/kg bw/d, OECD 421, adverse effect observed, Effect on fertility,
Methyl benzoylformate, CAS: 15206-55-0
NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on fertility), no adverse effect observed

**Carcinogenicity** Based on the available information, the classification criteria are not fulfilled.

Substance
Methyl methacrylate, CAS: 80-62-6
NOAEL, oral, Rat, 90.3 mg/kg bw/day (chronic), no adverse effect observed
NOAEC, inhalative, Rat, 2050 mg/m <sup>3</sup> (chronic), no adverse effect observed

**Aspiration hazard** Based on the available information, the classification criteria are not fulfilled.

**General remarks**

Toxicological data of complete product are not available.

Greppmayr GmbH  
82061 Neuried

Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 12 / 17

## 11.2 Information on other hazards

### Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Other information

none

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
Methyl methacrylate, CAS: 80-62-6
LC50, (96h), Oncorhynchus mykiss, > 79 mg/l (OECD 203)
EC50, (48h), Daphnia magna, 69 mg/l (OECD 202)
EC50, (72h), Selenastrum capricornutum, > 110 mg/l (OECD 201)
NOEC, Danio rerio, 9.4 mg/l (OECD 210)
NOEC, (21d), Daphnia magna, 37 mg/l (OECD 202-2)
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0
LC50, (96h), Brachidanio rerio, 16.4 mg/L
EC50, (21d), Daphnia magna, 51.9 mg/L
EC50, (72h), Pseudokirchneriella subcapitata, > 100 mg/L
Methacrylic acid, CAS: 79-41-4
LC50, (96h), fish, 85 mg/L (EPA OTS 797.1400)
LC50, (35d), fish, 42 mg/L (OECD 210)
EC50, (48h), Daphnia magna, > 130 mg/L (EPA OTS 797.1300)
NOEC, (21d), Daphnia sp., 53 mg/L
NOEC, (72h), Algae, 8.2 mg/L (OECD 201)
NOEC, (96h), fish, 12 mg/L (EPA OTS 797.1400)
NOEC, (48h), Daphnia sp., 130 mg/L (EPA OTS 797.1300)
NOEC, (35d), fish, 10 mg/L (OECD 210)
ErC50, (72h), Algae, 45 mg/L (OECD 201)
(1-Methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate, CAS: 42978-66-5
EC50, (72h), Algae, 65.9 mg/L
EC50, (48h), Invertebrates, 89 mg/L
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, CAS: 75980-60-8
LC50, (48h), Oryzias latipes, 6.53 mg/l (JIS K 0102-71)
EC50, (72h), Pseudokirchneriella subcapitata, > 2.01 (OECD 201)
EC50, (48h), Daphnia magna, 3.53 mg/l (OECD 202)
Methyl benzoylformate, CAS: 15206-55-0
LC50, (96h), fish, > 120 mg/L (OECD 203)
EC50, (48h), Daphnia sp., > 120 mg/L (OECD 202)
NOEC, (48h), Daphnia sp., ≥ 120 mg/L (OECD 202)
ErC50, (72h), Algae, 94.4 mg/L (OECD 201)

## 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	No information available.
<b>Behaviour in sewage plant</b>	No information available.
<b>Biological degradability</b>	CAS 109-16-0: 85%. 28d (OECD 301B; ISO/ 9439/ EEC 92/69/V. C.4-C) CAS 42978-66-5: 48%. 28d (OECD 301B; ISO/ 9439/ EEC 92/69/V. C.4-C) CAS 79-41-4: 86%. 28d (OECD 301D) CAS 75980-60-8: 0 - 10%. 28d (OECD 301F; ISO 9408/ EEC 92/69/V. C.4-D) CAS 15206-55-0: 90 - 100%. 28d (OECD 301B; ISO/ 9439/ EEC 92/69/V. C.4-C) CAS 80-62-6: 94%. 14d (OECD 301C)

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

The product is insoluble in water.

## 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

## 12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

Ecological data of complete product are not available.  
Do not discharge product unmonitored into the environment or into the drainage.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

For recycling, consult manufacturer.

**Waste no. (recommended)** 070208\*  
070214\*

#### Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

**Waste no. (recommended)** 150110\* packaging containing residues of or contaminated by hazardous substances

Greppmayr GmbH

82061 Neuried

Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 14 / 17

**SECTION 14: Transport information****14.1 UN number or ID number**

Transport by land according to ADR/RID 2531

Inland navigation (ADN) 2531

Marine transport in accordance with IMDG 2531

Air transport in accordance with IATA 2531

**14.2 UN proper shipping name**

Transport by land according to ADR/RID Methacrylic acid, stabilised, mixture

- Classification Code C3

- Label



- ADR LQ 1 I

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (E)

Inland navigation (ADN) Methacrylic acid, stabilised, mixture

- Classification Code C3

- Label



Marine transport in accordance with IMDG Methacrylic acid, stabilized, mixture

- EMS F-A, S-B

- Label



- IMDG LQ 1 I

Air transport in accordance with IATA Methacrylic acid, stabilized, mixture

- Label

**14.3 Transport hazard class(es)**

Transport by land according to ADR/RID 8

Inland navigation (ADN) 8

Marine transport in accordance with IMDG 8

Air transport in accordance with IATA 8

Greppmayr GmbH  
82061 Neuried

Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 15 / 17

#### 14.4 Packing group

Transport by land according to ADR/RID II

Inland navigation (ADN) II

Marine transport in accordance with IMDG II

Air transport in accordance with IATA II

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

No information available.

### SECTION 15: Regulatory information

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

**EEC-REGULATIONS** 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- Observe employment restrictions for people Observe employment restrictions for young people. Annex XVII of the REACH Regulation, restriction 3.

- VOC (2010/75/CE) not applicable

#### 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

Greppmayr GmbH

82061 Neuried

Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 16 / 17

**SECTION 16: Other information****16.1 Hazard statements (SECTION 3)**

H225 Highly flammable liquid and vapour.

H361f Suspected of damaging fertility.

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

H311 Toxic in contact with skin.

H302+H332 Harmful if swallowed or if inhaled.

H411 Toxic to aquatic life with long lasting effects.

H335 May cause respiratory irritation.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

**16.2 Abbreviations and acronyms:**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform Chemical Information Database

IVIS = In vitro irritation score

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV@/TWA = Threshold limit value – time-weighted average

TLV@STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

**16.3 Other information****Classification procedure**

Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (Calculation method)

Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)

Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

STOT SE 3: H335 May cause respiratory irritation. (Calculation method)

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

**Modified position**

none



**Safety Data Sheet (UK REACH) (GB)**  
**Unguisan Blue Light Primer**

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Date printed 10.10.2022, Revision 10.10.2022

Version 01

Page 17 / 17



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