

Globally Harmonized System of Classification and Labelling of
Chemicals (GHS)

ULTRASTAR UV LED FP-8320 Silver

Version 4.0

Revision Date 16.10.2023

Print Date 17.10.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : ULTRASTAR UV LED FP-8320 Silver
Material number : 025920U30

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 : ECKART GmbH
Guentersthal 4
91235 Hartenstein
Telephone : +499152770
Telefax : +499152777008
E-mail address : msds.eckart@altana.com
Responsible/issuing person

1.4 Emergency telephone number**NCEC:**

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification**GHS Classification**

: Skin corrosion/irritation, Category 2, H315
Serious eye damage/eye irritation, Category 2A, H319
Skin sensitisation, Category 1, H317

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Short-term (acute) aquatic hazard, Category 2, H401
Long-term (chronic) aquatic hazard, Category 2, H411

GHS-Labelling

Symbol(s)



Signal word

: Warning

Hazard statements

: H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H411: Toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**
P261 Avoid breathing mist or vapours.
P264 Wash skin 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/ face protection.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of 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.
P333 + P317 If skin irritation or rash occurs: Get medical help.
P337 + P317 If eye irritation persists: Get medical help.
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label

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Identification	CAS-No.
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	28961-43-5
Bisphenol A epoxy acrylate	55818-57-0
3-methyl-1,5-pentanediyl diacrylate	64194-22-5
(5-ethyl-1,3-dioxan-5-yl)methyl acrylate	66492-51-1
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7
Glycerol, propoxylated, esters with acrylic acid	52408-84-1
hexamethylene diacrylate	13048-33-4

SECTION 3: Composition/information on ingredients

Substance No. :

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	28961-43-5	;2A;H319 Skin Sens.;1;H317	10 - 20
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1)	51728-26-8	Skin Irrit.;2;H315 Eye Irrit.;2;H319 Aquatic Chronic;2;H411	10 - 20
Bisphenol A epoxy acrylate	55818-57-0	Skin Sens.;1;H317 Aquatic Chronic;2;H411	10 - 20
3-methyl-1,5-pentanediyl	64194-22-5	Acute Tox.;4;H332	10 - 20

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diacrylate	264-727-7	;2;H315 ;2A;H319 Skin Sens.;1A;H317 STOT SE;3;H335 Aquatic Chronic;3;H412	
(5-ethyl-1,3-dioxan-5-yl)methyl acrylate	66492-51-1 266-380-7	Skin Irrit.;2;H315 Skin Sens.;1B;H317 Aquatic Chronic;2;H411	2,5 - 10
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7 282-810-6	Skin Sens.;1;H317 Aquatic Chronic;2;H411	2,5 - 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	;2A;H319 Skin Sens.;1;H317	1 - 10
hexamethylene diacrylate	13048-33-4 235-921-9	Acute Tox.;5;H313 ;2;H315 ;2A;H319 Skin Sens.;1;H317 Aquatic Acute;1;H400 Aquatic Chronic;2;H411	2,5 - 10
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	1 - 10
2-ethylhexyl acrylate	103-11-7 203-080-7	Flam. Liq.;4;H227 ;2;H315 Skin Sens.;1;H317 STOT SE;3;H335	0,1 - 1

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2-ethyl-2-[[[1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	15625-89-5 239-701-3	;2;H315 ;2A;H319 Skin Sens.;1;H317 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	0,25 - 1
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For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Move the victim to fresh air. Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: Remove to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: Wash off immediately with soap and plenty of water. 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. 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.

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4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Dry sand, Special powder against metal fire

Unsuitable extinguishing media : ABC powder, Carbon dioxide (CO₂), Water, Foam

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Contact with water liberates extremely flammable gas (hydrogen).

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. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Personal precautions : Evacuate personnel to safe areas.
Use personal protective equipment.
Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

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 materials for containment and cleaning up

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

6.4 Reference to other sections

For personal protection see section 8.

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

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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 : Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.

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.

Advice on common storage : Do not store near acids. Do not store together with oxidizing and self-igniting products. Keep away from oxidizing agents and strongly acid or alkaline materials. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

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SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Germany:**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Bisphenol A epoxy acrylate	55818-57-0	AGW (Inhalable fraction)	10 mg/m ³	2020-03-30	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
Bisphenol A epoxy acrylate	55818-57-0	AGW (Alveolate fraction)	1,25 mg/m ³	2020-03-30	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
2-ethylhexyl acrylate	103-11-7	AGW	5 ppm 38 mg/m ³	2009-02-16	DE TRGS 900
Peak-limit: excursion factor (category)	1;(I)				
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).When there is				

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		compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child Substance sensitizing through the skin			
2-ethylhexyl acrylate	103-11-7	AGW (Vapour and aerosols)	5 ppm 38 mg/m ³	2013-09-19	DE TRGS 900
Peak-limit: excursion factor (category)		1;(I)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). Sum of vapor and aerosols. When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child Substance sensitizing through the skin			

8.2 Exposure controls

Personal protective equipment

- Eye protection : Goggles
: Tightly fitting safety goggles
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 : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Use suitable breathing protection if workplace concentration requires.

Environmental exposure controls

- General advice : The product should not be allowed to enter drains, water courses or the soil.
: Prevent product from entering drains.

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

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	: liquid
Colour	: silver
Odour	: characteristic
pH	: 6 - 8, 100 %
Melting point/range	: Not applicable
Boiling point/boiling range	: > 100 °C
Flash point	: > 100 °C
Bulk density	: No data available
Flammability (solid, gas)	: No data available
Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: 1,1 g/cm ³
Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: immiscible
Solubility in other solvents	: No data available

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Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: 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

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 : Contact with acids and alkalis may release hydrogen.

No decomposition if stored and applied as directed.

10.4 Conditions to avoidConditions to avoid : Do not allow evaporation to dryness.
No data available**10.5 Incompatible materials**Materials to avoid : Acids
Bases
Oxidizing agents**10.6 Hazardous decomposition products**

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Other information : No data available

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Components:****3-methyl-1,5-pentenediyl diacrylate :**

Acute inhalation toxicity : The component/mixture is moderately toxic after short term inhalation.

ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate :

Acute oral toxicity : Rat: > 5 000 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : Rat: > 2 000 mg/kg

Method: OECD Test Guideline 402

hexamethylene diacrylate :

Acute oral toxicity : LD50 Rat: > 5 000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : Rat: 0,14 mg/l

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Exposure time: 7 h

Acute dermal toxicity : LD50 Rabbit: 3 650 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation**Product**

May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation**Product**

May cause irreversible eye damage.

Respiratory or skin sensitisation**Product**

Causes sensitisation.

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

Reprod.Tox./Development/Teratogenicity

No data available

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STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information**Product**

No data available

SECTION 12: Ecological information**12.1 Toxicity****Components:****Bisphenol A epoxy acrylate (55818-57-0) :****Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Toxic to aquatic life.

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

3-methyl-1,5-pentanediyl diacrylate (64194-22-5) :**Ecotoxicology Assessment**

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

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hazard

ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate (84434-11-7) :**Ecotoxicology Assessment**

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

hazard

hexamethylene diacrylate (13048-33-4) :

M-Factor : 1

Ecotoxicology Assessment

Short-term (acute) aquatic : Very toxic to aquatic life.

hazard

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

hazard

2-ethyl-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate (15625-89-5) :**Ecotoxicology Assessment**

Short-term (acute) aquatic : Very toxic to aquatic life.

hazard

Long-term (chronic) aquatic : Very toxic to aquatic life with long lasting effects.

hazard

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

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12.6 Other adverse effects**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information**14.1 UN number****ADR** : 3082**TDG**

Not dangerous goods

CFR

Not dangerous goods

IMDG : 3082**IATA** : 3082

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14.2 Proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(hexane-1,6-diol diacrylate)

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(,hexane-1,6-diol diacrylate)

IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(hexane-1,6-diol diacrylate)

14.3 Transport hazard class

ADR : 9

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG : 9

IATA : 9

14.4 Packing group**ADR**

Packaging group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

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Tunnel restriction code : (-)

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Packaging group : III

Labels : 9

IATA

Packing instruction (cargo aircraft) : 964

Packing instruction (passenger aircraft) : 964

Packing instruction (LQ) : Y964

Packaging group : III

Labels : 9

14.5 Environmental hazards

ADR : Environmentally hazardous

IMDG : Marine pollutant

14.6 Special precautions for user

For single packagings ≤ 5L / 5 kg, or combination packagings containing inner packagings ≤ 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

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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
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Banned and/or restricted (Propylidynetrimethanol, ethoxylated, esters with acrylic acid) (Bisphenol A epoxy acrylate) (monoalkylor monoaryl or monoalkylaryl esters of acrylic acid) ((5-ethyl-1,3-dioxan-5-yl)methyl acrylate) (ethyl phenyl(2,4,6- trimethylbenzoyl)phosphinate) (Glycerol, propoxylated, esters with acrylic acid) (hexamethylene diacrylate) (aluminium powder (stabilised)) (2-ethylhexyl acrylate) (2,2-bis(acryloyloxymethyl)butyl acrylate)

15.2 Chemical safety assessment

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No data available

SECTION 16: Other information**Full text of H-Statements**

H227	: Combustible liquid.
H228	: Flammable solid.
H313	: May be harmful in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H400	: Very toxic to aquatic life.
H401	: 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.

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.