

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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

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

Trade name : ULTRASTAR UV SP-8712 Silver
Material number : 007647U30

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**

: Acute toxicity, Category 5, Oral, H303
Skin corrosion/irritation, Category 2, H315
Serious eye damage/eye irritation, Category 1, H318

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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

Skin sensitisation, Category 1, H317
Short-term (acute) aquatic hazard, Category 2, H401
Long-term (chronic) aquatic hazard, Category 2, H411

GHS-Labelling

Symbol(s)

:



Signal word

:

Danger

Hazard statements

:

H303: May be harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
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:
P301 + P333 + P317 IF SWALLOWED or if skin irritation or rash occurs: Get medical help.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P354 + P338 + P317 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

Hazardous components which must be listed on the label

Identification	CAS-No.
hexamethylene diacrylate	13048-33-4
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	28961-43-5
Bisphenol A epoxy acrylate	55818-57-0
2-Propenoic acid, reaction products with pentaerythritol	1245638-61-2
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7
Glycerol, propoxylated, esters with acrylic acid	52408-84-1
2-hydroxy-2-methylpropiophenone	7473-98-5

SECTION 3: Composition/information on ingredients

Substance No. :

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
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	20 - 25
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]-, ether with 2-	28961-43-5	;2A;H319 Skin Sens.;1;H317 Aquatic	20 - 25

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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)		Chronic;3;H412	
Urethanacrylat Oligomer	Not Assigned	Eye Irrit.;2A;H319	10 - 20
Bisphenol A epoxy acrylate	55818-57-0	Skin Sens.;1;H317 Aquatic Chronic;2;H411	10 - 20
2-Propenoic acid, reaction products with pentaerythritol	1245638-61-2	Acute Tox.;4;H302 Skin Irrit.;2;H315 Eye Dam.;1;H318 Skin Sens.;1;H317 Aquatic Acute;2;H401 Aquatic Chronic;2;H411	3 - 10
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7	Acute Tox.;5;H303 Acute Tox.;5;H313 Skin Sens.;1;H317 Aquatic Chronic;4;H413	2,5 - 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	;2A;H319 Skin Sens.;1;H317	1 - 10
polyester acrylate oligomer	223463-47-6	Skin Irrit.;2;H315 Eye Irrit.;2A;H319	1 - 10
2-hydroxy-2-methylpropiophenone	7473-98-5 231-272-0	Acute Tox.;4;H302 Aquatic Chronic;3;H412	1 - 2,5

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	1 - 10
2-Hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one	474510-57-1	Acute Tox.;5;H303 Acute Tox.;5;H313 STOT RE;2;H373 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	0,25 - 1
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
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	0,1 - 0,25

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 out of dangerous area.
Consult a physician.
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.

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

- | | |
|-------------------------|--|
| 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 | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital. |

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**

- | | |
|--------------------------------|-------------------------|
| Unsuitable extinguishing media | : 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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

- 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.

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

- Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

- General advice : 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.

This information is not available.

6.3 Methods and materials 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.

6.4 Reference to other sections

This information is not available.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Advice on safe handling : Do not breathe vapours/dust. Avoid exposure - obtain special

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

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. To avoid spills during handling keep bottle on a metal tray. 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.


Other data : 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****Germany:**

Components	CAS-No.	Value type (Form of	Control parameters	Update	Basis
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Page 8 / 22	102000021544	A member of  ALTANA			
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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

		exposure)			
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 compliance with the OEL and biological tolerance values, there is no risk of harming the unborn childSubstance 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)			

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

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 childSubstance sensitizing through the skin			
2,6-di-tert-butyl-p-cresol	128-37-0	AGW (Vapour and aerosols, inhalable fraction)	10 mg/m3	2012-09-13	DE TRGS 900
Peak-limit: excursion factor (category)		4;(II)			
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			

8.2 Exposure controls**Personal protective equipment**

Eye protection : 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.

Environmental exposure controls

General advice : 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.

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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

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

Appearance	: liquid
Colour	: silver
Odour	: characteristic
pH	: substance/mixture is non-soluble (in water)
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	: 1,0 g/cm ³
Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available

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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

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 : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : No data available


10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Other information : No data available

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Page 12 / 22	102000021544	A member of  ALTANA
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Globally Harmonized System of Classification and Labelling of
Chemicals (GHS)

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

Components:**hexamethylene diacrylate :**

Acute oral toxicity : LD50 Rat: > 5 000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : Rat: 0,14 mg/l
Exposure time: 7 h

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

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-2-methylpropiophenone :

Acute oral toxicity : The component/mixture is moderately toxic after single
ingestion.

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

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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

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

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

2,6-di-tert-butyl-p-cresol :

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

Method: OECD Test Guideline 401

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

Method: OECD Test Guideline 402

Skin corrosion/irritation**Product**

Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation**Product**

May cause irreversible eye damage.

Respiratory or skin sensitisation**Product**

Causes sensitisation.

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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

Reprod.Tox./Development/Teratogenicity

No data available

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:**

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

hexamethylene diacrylate (13048-33-4) :

M-Factor : 1

Ecotoxicology Assessment

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

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

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) (28961-43-5) :**Ecotoxicology Assessment**

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

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.

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7) :**Ecotoxicology Assessment**

Long-term (chronic) aquatic hazard : May cause long lasting harmful effects to aquatic life.

2-hydroxy-2-methylpropiophenone (7473-98-5) :**Ecotoxicology Assessment**

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

2-Hydroxy-1-(4-(4-(2-hydroxy-2-methylpropionyl)benzyl)phenyl)-2-methylpropan-1-one (474510-57-1) :

M-Factor : 1

Ecotoxicology Assessment

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

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

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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

2,6-di-tert-butyl-p-cresol (128-37-0) :

M-Factor : 1

Ecotoxicology Assessment

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

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

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

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.

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

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**14.2 Proper shipping name****ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(hexane-1,6-diol diacrylate)**TDG**

Not dangerous goods

CFR

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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

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

Tunnel restriction code : (-)

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

Packaging group : III
Labels : 9
EmS Code : F-A, S-F

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

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 : Not applicable

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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

Concern for Authorisation (Article 59).

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
(hexamethylene diacrylate)
(Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1))
(Bisphenol A epoxy acrylate)
(Glycerol, propoxylated, esters with acrylic acid)
(polyester acrylate oligomer)
(2-hydroxy-2-methylpropiophenone)
(aluminium powder (stabilised))
(2-ethylhexyl acrylate)

15.2 Chemical safety assessment

No data available

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

H227 : Combustible liquid.
H228 : Flammable solid.
H302 : Harmful if swallowed.
H303 : May be harmful if swallowed.

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

ULTRASTAR UV SP-8712 Silver

Version 13.0

Revision Date 30.01.2024

Print Date 01.02.2024

H313	: May be harmful in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H335	: May cause respiratory irritation.
H373	: May cause damage to organs through prolonged or repeated exposure.
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.
H413	: May cause long lasting harmful effects to aquatic life.

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.