

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

**ULTRASTAR UV FP-8220 Silver**

Version 11.0

Revision Date 29.02.2024

Print Date 01.03.2024

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

Trade name : ULTRASTAR UV FP-8220 Silver  
Material number : 052466U30

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

Use of the : Colorant; Printing ink related material; Printing ink  
Substance/Mixture

**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](mailto: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

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Skin sensitisation, Category 1, H317  
Short-term (acute) aquatic hazard, Category 1, H400  
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.  
H400: Very toxic to aquatic life.  
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.

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**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
Glycerol, propoxylated, esters with acrylic acid	52408-84-1

**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	25 - 50
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	;2A;H319 Skin Sens.;1;H317 Aquatic Chronic;3;H412	20 - 25
Bisphenol A epoxy acrylate	55818-57-0	Skin Sens.;1;H317	10 - 20

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		Aquatic Chronic;2;H411	
2-hydroxy-2-methylpropiophenone	7473-98-5 231-272-0	Acute Tox.;4;H302 Aquatic Chronic;3;H412	2,5 - 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	;2A;H319 Skin Sens.;1;H317	1 - 10
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	1 - 10
Propoxylated neopentyl glycol diacrylate esters	84170-74-1	Skin Sens.;1;H317 Aquatic Chronic;2;H411	0,25 - 1
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

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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 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	: 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**

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**

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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**

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 : 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.

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**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 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.
- 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 <sup>3</sup>	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 <sup>3</sup>	2020-03-30	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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			
2,6-di-tert-butyl-p-cresol	128-37-0	AGW (Vapour and aerosols, inhalable fraction)	10 mg/m <sup>3</sup>	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			

**United States of America (USA):**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
hexamethylene diacrylate	13048-33-4	TWA	1 mg/m <sup>3</sup>	2008-01-01	
aluminium	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	TWA (Respirable)	5 mg/m <sup>3</sup>	2013-10-08	
aluminium	7429-90-5	TWA (total dust)	15 mg/m <sup>3</sup>	2012-07-01	
aluminium	7429-90-5	TWA (total)	10 mg/m <sup>3</sup>	2013-10-08	
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m <sup>3</sup>	2012-07-01	

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aluminium	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	PEL (Total dust)	10 mg/m3	2014-11-26	
aluminium	7429-90-5	PEL (respirable dust fraction)	5 mg/m3	2014-11-26	
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m3	2008-01-01	
aluminium	7429-90-5	TWA	5 mg/m3	2005-09-01	
aluminium	7429-90-5	TWA (Total)	15 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (Respirable fraction)	5 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01	
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m3	2011-07-01	
aluminium	7429-90-5	TWA (Total dust)	15 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (respirable dust fraction)	5 mg/m3	1989-01-19	
aluminium	7429-90-5	TWA (welding fumes)	5 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (pyro powders)	5 mg/m3	2013-10-08	
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m3	2013-03-01	
aluminium	7429-90-5	TWA (Fumes)	5 mg/m3	1989-01-19	
aluminium	7429-90-5	PEL (Welding fumes)	5 mg/m3	2017-10-02	
aluminium	7429-90-5	PEL (Pyro powders)	5 mg/m3	2017-10-02	
aluminium	7429-90-5	TWA (powder)	5 mg/m3	1989-01-19	

### 8.2 Exposure controls

#### Personal protective equipment

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- 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.

**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

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Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: 1,1 g/cm <sup>3</sup>
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
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**

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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****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

**2-hydroxy-2-methylpropiophenone :**

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

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ingestion.

**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

**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**

May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation****Product**

May cause irreversible eye damage.

**Respiratory or skin sensitisation****Product**

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Causes sensitisation.

**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

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**SECTION 12: Ecological information****12.1 Toxicity****Components:****hexamethylene diacrylate (13048-33-4) :**

M-Factor : 1

**Ecotoxicology Assessment**Short-term (acute) aquatic : Very toxic to aquatic life.  
hazardLong-term (chronic) aquatic : Toxic to aquatic life with long lasting effects.  
hazard**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 : Harmful to aquatic life with long lasting effects.  
hazard**Bisphenol A epoxy acrylate (55818-57-0) :****Ecotoxicology Assessment**Short-term (acute) aquatic : Toxic to aquatic life.  
hazardLong-term (chronic) aquatic : Toxic to aquatic life with long lasting effects.  
hazard**2-hydroxy-2-methylpropiophenone (7473-98-5) :****Ecotoxicology Assessment**Long-term (chronic) aquatic : Harmful to aquatic life with long lasting effects.  
hazard**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 : Very toxic to aquatic life.  
hazard



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

**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., Very toxic to aquatic life., Toxic to aquatic life with long lasting effects.

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**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**

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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**

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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

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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 : Not applicable

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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)  
 (2-hydroxy-2-methylpropiophenone)  
 (Glycerol, propoxylated, esters with acrylic acid)  
 (aluminium powder (stabilised))  
 (Propoxylated neopentyl glycol diacrylate esters)  
 (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.

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H303	: May be harmful if swallowed.
H313	: May be harmful in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
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.
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.

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