

Trade name: Hesse UV Basecoat for roller coating clear UG 7541

Version: 47 / GB

Revision: 08.04.2021

Replaces Version: 46 / GB

Print date: 09.04.21

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Hesse UV Basecoat for roller coating clear UG 7541

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

#### Use of the substance/preparation

Surface treatment of wood and other materials

#### Identified Uses

	REACHSET 1002
SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix
PROCh02	roller coating industrial

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

#### Manufacturer

Hesse GmbH & Co. KG  
Warendorfer Strasse 21  
59075 Hamm  
Telephone no. +49 (0) 2381 963-00  
Fax no. +49 (0) 2381 963-849  
E-mail address ps@hesse-lignal.de

### 1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)		
	Skin Irrit. 2	H315
	Eye Dam. 1	H318
	Skin Sens. 1A	H317
	Aquatic Chronic 2	H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008  
For explanation of abbreviations see section 16.

### 2.2. Label elements

#### Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms



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**Signal word**

Danger

**Hazard statements**

H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H317 May cause an allergic skin reaction.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264.1 Wash hands thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/ attention.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains oxybis(methyl-2,1-ethanediyl) diacrylate; glycerol, propoxylated, esters with acrylic acid; salt of polyamine amide; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

**2.3. Other hazards**

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB) (if not listed in Section 3).

**3. Composition/information on ingredients****Hazardous ingredients****4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

CAS No. 55818-57-0  
 EINECS no. 500-130-2  
 Registration no. 01-2119490020-53  
 Concentration  $\geq$  30 < 50 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Sens. 1 H317  
 Aquatic Chronic 2 H411

**oxybis(methyl-2,1-ethanediyl) diacrylate**

CAS No. 57472-68-1  
 EINECS no. 260-754-3  
 Registration no. 01-2119484629-21  
 Concentration  $\geq$  10 < 25 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Eye Dam. 1 H318  
 Skin Irrit. 2 H315  
 Skin Sens. 1 H317

**glycerol, propoxylated, esters with acrylic acid**

CAS No. 52408-84-1  
 EINECS no. 500-114-5

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Registration no. 01-2119487948-12  
 Concentration  $\geq$  10 < 25 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Eye Irrit. 2 H319  
 Skin Sens. 1 H317

**Polyether acrylate, amine modified**

Concentration  $\geq$  3 < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Aquatic Chronic 2 H411

**tripropylene glycole, ester with acrylic acid, reactionproduct with diethyle amine**

CAS No. 111497-86-0  
 EINECS no. 601-101-8  
 Registration no. 01-2119961351-42  
 Concentration  $\geq$  1 < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Eye Irrit. 2 H319  
 Skin Irrit. 2 H315  
 Skin Sens. 1B H317

**benzophenone**

CAS No. 119-61-9  
 EINECS no. 204-337-6  
 Registration no. 01-2119899704-20  
 Concentration  $\geq$  1 < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 STOT RE 2 H373 Liver, Kidneys  
 Aquatic Chronic 3 H412

**2-hydroxy-2-methylpropiophenone**

CAS No. 7473-98-5  
 EINECS no. 231-272-0  
 Registration no. 01-2119472306-39  
 Concentration  $\geq$  1 < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 4 H302 Route of exposure: Oral exposure

**salt of polyamine amide**

CAS No. 162627-17-0  
 EINECS no. 605-296-0  
 Registration no. 01-2119970640-38  
 Concentration  $\geq$  0,1 < 1 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Sens. 1A H317

**Note**

For explanation of abbreviations see section 16.  
 This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) (if not listed in Section 3).

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## 4. First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accidental skin or eye contact, avoid exposure to ultra-violet light. In all cases of doubt, or when symptoms persist, seek medical attention. If unconscious place in recovery position and seek medical advice. First aider: Pay attention to self-protection! Remove affected person from danger area, lay him down.

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Keep warm, calm and covered up. In all cases of doubt, or when symptoms persist, seek medical attention.

#### After skin contact

Wash off immediately with soap and water. Do NOT use solvents or thinners. Consult a doctor if skin irritation persists.

#### After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. Take medical treatment.

#### After ingestion

Do not induce vomiting. Take medical treatment.

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

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

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

#### Hints for the physician / treatment

Treat symptomatically.

## 5. Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray/mist

#### Non suitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

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

Fire will produce dense black smoke. In a fire, hazardous decomposition products may be produced. Exposure to decomposition products may cause a health hazard. Vapours can form an explosive mixture with air.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighting

In case of combustion evolution of dangerous gases possible. Use self-contained breathing apparatus.

#### Other information

Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water. Standard procedure for chemical fires.

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## 6. Accidental release measures

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

Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Do not inhale vapours. Do not inhale gases. Do not inhale mist.

### 6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not allow to enter soil, waterways or waste water canal. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Do NOT use solvents or thinners. Send in suitable containers for recovery or disposal.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## 7. Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep container tightly closed and dry in a cool, well-ventilated place. Use only with adequate ventilation/personal protection. Ensure adequate ventilation. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. Do not eat, drink or smoke when using this product. Use personal protective clothing. For personal protection see Section 8.

#### Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Vapours are heavier than air and may spread along floors. Take measures to prevent the build up of electrostatic charge. Fight fire with normal precautions from a reasonable distance.

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

#### Requirements for storage rooms and vessels

Provide solvent-resistant and impermeable floor. Keep only in the original container in a cool, well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Hints on storage assembly

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

#### Storage classes

Storage class according to TRGS 510      10                      Flammable liquids

#### Further information on storage conditions

Protect from frost. Protect from heat and direct sunlight. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations.

### 7.3. Specific end use(s)

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See exposure scenario, if available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Other information

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#### Derived No/Minimal Effect Levels (DNEL/DMEL)

##### glycerol, propoxylated, esters with acrylic acid

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	1,92	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	16,2	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	1,15	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	4,87	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	1,39	mg/kg/d

##### oxybis(methyl-2,1-ethanediyl) diacrylate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	2,77	mg/kg/d

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	24,48	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	1,66	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	7,24	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	2,08	mg/kg/d
<b>benzophenone</b>		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	26,4	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,7	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	0,1	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	

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Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,17	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	0,05	mg/kg/d

**2-hydroxy-2-methylpropiophenone**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3,5	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3,5	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	1,25	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	1,25	mg/kg

**tripropylene glycole, ester with acrylic acid, reactionproduct with diethyle amine**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	23,51	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	



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Concentration 3,33 mg/kg/d

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

Type of value Derived No Effect Level (DNEL)  
Reference group Workers (industrial)  
Duration of exposure Long-term  
Route of exposure Dermal exposure  
Mode of action Systemic effects  
Concentration 17,5 mg/kg/d

Type of value Derived No Effect Level (DNEL)  
Reference group Workers (industrial)  
Duration of exposure Long-term  
Route of exposure inhalative  
Mode of action Systemic effects  
Concentration 122,5 mg/m<sup>3</sup>

**Predicted No Effect Concentration (PNEC)**

**glycerol, propoxylated, esters with acrylic acid**

Type of value PNEC  
Type Freshwater  
Concentration 0,00574 mg/l

Type of value PNEC  
Type Saltwater  
Concentration 0,000574 mg/l

Type of value PNEC  
Type Fresh water sediment  
Concentration 0,01697 mg/kg

Type of value PNEC  
Type saltwater sediment  
Concentration 0,001697 mg/kg

Type of value PNEC  
Type Soil  
Concentration 0,00111 mg/kg

Type of value PNEC  
Type Sewage treatment plant (STP)  
Concentration 10 mg/l

**oxybis(methyl-2,1-ethanediyl) diacrylate**

Type of value PNEC  
Type Freshwater  
Concentration 0,0034 mg/l

Type of value PNEC  
Type Saltwater  
Concentration 0,00034 mg/l

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Type of value	PNEC	
Conditions	sporadic release	
Concentration	0,034	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	0,00884	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,000884	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,0013	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l
<b>benzophenone</b>		
Type of value	PNEC	
Type	Freshwater	
Concentration	0,02	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,002	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	0,035	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	1,1	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,11	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,31	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	3,16	mg/l

**2-hydroxy-2-methylpropiophenone**

Type of value	PNEC
Type	Freshwater

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Concentration	0,00195	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,000195	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	0,0195	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	0,00514	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,000514	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,000674	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	45	mg/l

**tripropylene glycole, ester with acrylic acid, reactionproduct with diethyle amine**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,1	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,01	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	1	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,1	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,01	mg/l

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Type of value	PNEC	
Type	Fresh water sediment	
Concentration	35,8	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	3,58	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	71	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

## 8.2. Exposure controls

### Exposure controls

Users are advised to consider national Occupational Exposure Limits or other equivalent values. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

### Hand protection

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness  $\geq$  0,7 mm

Breakthrough time  $\geq$  30 min

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

The breakthrough time must be greater than the end use time of the product.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

### Eye protection

Wear eye glasses with side protection according to EN 166.

### Body protection

Wear suitable protective clothing. Remove contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

## 9. Physical and chemical properties

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

<b>Form</b>	liquid
<b>Colour</b>	colourless

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<b>Odour</b>	acrylic-like		
<b>Odour threshold</b>			
Remarks	not determined		
<b>Melting point</b>			
Remarks	not determined		
<b>Freezing point</b>			
Remarks	not determined		
<b>Initial boiling point and boiling range</b>			
Remarks	Not applicable		
<b>Flash point</b>			
Value	>	60	°C
<b>Evaporation rate</b>			
Remarks	not determined		
<b>Flammability (solid, gas)</b>	not determined		
<b>Upper/lower flammability or explosive limits</b>			
Remarks	not determined		
<b>Vapour pressure</b>			
Remarks	not determined		
<b>Vapour density</b>			
Remarks	not determined		
<b>Density</b>			
Value	appr.	1,218	kg/l
Temperature		20	°C
<b>Solubility in water</b>			
Remarks	not determined		
<b>Solubility(ies)</b>			
Remarks	not determined		
<b>Partition coefficient: n-octanol/water</b>			
Remarks	not determined		
<b>Ignition temperature</b>			
Remarks	not determined		
<b>Decomposition temperature</b>			
Remarks	not determined		
<b>Viscosity</b>			
Remarks	not determined		
<b>Efflux time</b>			
Value	64	to	86
Temperature	20	°C	
Method	DIN 53211 - 8 mm		
<b>Explosive properties</b>			
evaluation	not determined		

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**Oxidising properties**

Remarks not determined

**9.2. Other information****Non-volatile content**

Value	99,8	%
Method	calculated value	

**Other information**

This information is not available.

**10. Stability and reactivity****10.1. Reactivity**

Stable under recommended storage and handling conditions (see section 7).

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

To avoid thermal decomposition, do not overheat.

**10.4. Conditions to avoid**

This mixture contains materials which are unstable under the following conditions: exposure to heat (&gt;50°C), strong UV sources. These could cause the product to polymerise exothermically.

**10.5. Incompatible materials**

Keep away from free radical initiators, peroxides, strong alkalis or reactive metals.

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide, nitrous oxides (NOx), dense black smoke, No decomposition if used as prescribed.

**11. Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

ATE	>	10.000	mg/kg
Method		calculated value (Regulation (EC) No. 1272/2008)	
Remarks		Based on available data, the classification criteria are not met.	

**Acute oral toxicity (Components)****2-hydroxy-2-methylpropiophenone**

Species	rat		
LD50		1694	mg/kg

**Acute dermal toxicity**

Method	Calculation method (Regulation (EC) No. 1272/2008)
Remarks	Based on available data, the classification criteria are not met.

**Acute inhalational toxicity**

Method	Calculation method (Regulation (EC) No. 1272/2008)
Remarks	Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

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evaluation	irritant
Method	Calculation method (Regulation (EC) No. 1272/2008)
Remarks	The classification criteria are met.

**Skin corrosion/irritation (Components)****oxybis(methyl-2,1-ethanediyl) diacrylate**

evaluation	Skin irritation
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**tripropylene glycole, ester with acrylic acid, reactionproduct with diethyle amine**

Species	rabbit
Observation Period	14 d
evaluation	Irritating to skin.

**Serious eye damage/irritation**

evaluation	corrosive
Method	Calculation method (Regulation (EC) No. 1272/2008)
Remarks	The classification criteria are met.

**Serious eye damage/irritation (Components)****oxybis(methyl-2,1-ethanediyl) diacrylate**

Species	rabbit
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**glycerol, propoxylated, esters with acrylic acid**

evaluation	Irritating to eyes.
------------	---------------------

**Sensitization**

evaluation	May cause sensitization by skin contact.
Method	Calculation method (Regulation (EC) No. 1272/2008)
Remarks	The classification criteria are met.

**Sensitization (Components)****oxybis(methyl-2,1-ethanediyl) diacrylate**

evaluation	May cause sensitization by skin contact.
------------	--

**glycerol, propoxylated, esters with acrylic acid**

evaluation	May cause sensitization by skin contact.
------------	--

**tripropylene glycole, ester with acrylic acid, reactionproduct with diethyle amine**

evaluation	May cause sensitization by skin contact.
------------	--

**salt of polyamine amide**

evaluation	May cause sensitization by skin contact.
------------	--

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

Species	mouse
evaluation	May cause sensitization by skin contact.

**Mutagenicity**

Method	Calculation method (Regulation (EC) No. 1272/2008)
Remarks	Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Method	Calculation method (Regulation (EC) No. 1272/2008)
Remarks	Based on available data, the classification criteria are not met.

**Carcinogenicity**

Method	Calculation method (Regulation (EC) No. 1272/2008)
Remarks	Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT)**

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**Single exposure**

Method Calculation method (Regulation (EC) No. 1272/2008)  
 Remarks Based on available data, the classification criteria are not met.

**Repeated exposure**

Remarks Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) (Components)****benzophenone****Specific target organ toxicity - repeated exposure**

Organs: Liver, Kidneys  
 Remarks May cause damage to organs through prolonged or repeated exposure:

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Other information**

No toxicological data are available.

**12. Ecological information****12.1. Toxicity****General information**

For this subsection there is no ecotoxicological data available on the product as such.

**Fish toxicity (Components)****Polyether acrylate, amine modified**

Species Danio rerio (zebra fish)  
 LC50 1 to 10 mg/l  
 Duration of exposure 96 h  
 Method OECD 203

**glycerol, propoxylated, esters with acrylic acid**

Species Danio rerio (zebra fish)  
 NOEC 1,59 mg/l  
 Duration of exposure = 96 h  
 Method OECD 203

**glycerol, propoxylated, esters with acrylic acid**

Species Danio rerio (zebra fish)  
 LC50 5,74 mg/l  
 Duration of exposure = 96 h  
 Method OECD 203

**2-hydroxy-2-methylpropiophenone**

Species Leuciscus idus (Golden orfe)  
 LC50 160 mg/l  
 Duration of exposure 48 h

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

Species zebra fish (Brachydanio rerio)  
 LC50 5,74 mg/l  
 Duration of exposure 96 h  
 Method OECD 203

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters**



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**with acrylic acid**

Species	Pimephales promelas (fathead minnow)		
NOEC	0,25		mg/l
Duration of exposure	33	d	
Method	OECD 210		

**Daphnia toxicity (Components)****benzophenone**

Species	Daphnia magna (Water flea)		
EC50	6,8		mg/l
Duration of exposure	48	h	
Method	OECD 202, part 1, static		

**benzophenone**

Species	Daphnia magna (Water flea)		
NOEC	0,2		mg/l
Duration of exposure	7	d	

**glycerol, propoxylated, esters with acrylic acid**

Species	Daphnia magna (Water flea)		
EC50	91,4		mg/l
Duration of exposure	= 48	h	
Method	OECD Test Guideline 202		

**2-hydroxy-2-methylpropiophenone**

Species	Daphnia magna (Water flea)		
EC50	> 119		mg/l
Duration of exposure	48	h	
Method	OECD Test Guideline 202		

**tripropylene glycole, ester with acrylic acid, reactionproduct with diethyle amine**

Species	Daphnia magna (Water flea)		
EC50	> 100		mg/l
Duration of exposure	48	h	
Method	OECD 202, part 1, static		

**Algae toxicity (Components)****glycerol, propoxylated, esters with acrylic acid**

Species	Desmodesmus subspicatus		
EC50	12,2		mg/l
Duration of exposure	= 72	h	
Method	OECD 201		

**2-hydroxy-2-methylpropiophenone**

Species	Desmodesmus subspicatus		
EC50	1,95		mg/l
Duration of exposure	72	h	
Method	OECD 201		

**Bacteria toxicity (Components)****Polyether acrylate, amine modified**

Species	Pseudomonas putida		
EC50	> 1000		mg/l

**2-hydroxy-2-methylpropiophenone**

Species	activated sludge		
EC50	> 1000		mg/l
Duration of exposure	3	h	

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## 12.2. Persistence and degradability

### General information

For this subsection there is no ecotoxicological data available on the product as such.

### Biodegradability (Components)

#### Polyether acrylate, amine modified

Value	40	to	50	%
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#### glycerol, propoxylated, esters with acrylic acid

evaluation	Readily biodegradable.			
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#### benzophenone

Value	0,0			%
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Duration of test evaluation	14	d		
	Not readily biodegradable.			

#### 2-hydroxy-2-methylpropiophenone

Value	90	to	100	%
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Duration of test evaluation	28	d		
	Readily biodegradable.			

#### 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Value	42			%
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evaluation	Not readily biodegradable.			
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## 12.3. Bioaccumulative potential

### General information

For this subsection there is no ecotoxicological data available on the product as such.

### Partition coefficient: n-octanol/water

Remarks	not determined
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## 12.4. Mobility in soil

### General information

For this subsection there is no ecotoxicological data available on the product as such.

### Mobility in soil

no data available

## 12.5. Results of PBT and vPvB assessment

### General information

For this subsection there is no ecotoxicological data available on the product as such.

## 12.6. Other adverse effects

### General information

For this subsection there is no ecotoxicological data available on the product as such.

### General information / ecology

For this subsection there is no ecotoxicological data available on the product as such.

## 13. Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

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EWC waste code 080111 - waste paint and varnish containing organic solvents or other dangerous substances

EWC waste code 200127 - paint, inks, adhesives and resins containing dangerous substances

Where possible recycling is preferred to disposal or incineration.  
Do not allow to enter drains or waterways.

**modified product**

EWC waste code 080113 - sludges from paint or varnish containing organic solvents or other dangerous substances

EWC waste code 080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances

**Dried residues**

EWC waste code 080112 - waste lacquers and waste paint except those falling under 080111

**Disposal recommendations for packaging**

EWC waste code 150110 - packaging containing residues of or contaminated by dangerous substances

Fully drained containers which are drop- and scrape-free can be treated as industrial waste, and can possibly be recycled.

**14. Transport information**







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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, Polyether acrylate, amine modified)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, Polyether acrylate, amine modified)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid, Polyether acrylate, amine modified)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS

## 15. Regulatory information

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

#### VOC

VOC (EU) 0,2 % 3 g/l

#### Other information

All components are contained in the TSCA inventory or exempted.

### 15.2. Chemical safety assessment

For this substance / mixture a chemical safety assessment was not carried out.

## 16. Other information

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**Hazard statements listed in Chapter 3**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**CLP categories listed in Chapter 3**

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
Skin Sens. 1B	Skin sensitization, Category 1B
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2

**Abbreviations**

ADR - Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 IMDG - International Maritime Code for Dangerous Goods  
 IATA - International Air Transport Association  
 IATA-DGR - Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS - European Inventory of Existing Commercial Chemical Substances  
 CAS - Chemical Abstracts Service (division of the American Chemical Society)  
 GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
 LOAEL - Lowest Observed Adverse Effect Level  
 LOEL - Lowest Observed Effect Level  
 NOAEL - No Observed Adverse Effect Level  
 NOEC - No Observed Effect Concentration  
 NOEL - No Observed Effect Level  
 OECD - Organisation for Economic Cooperation and Development  
 VOC - Volatile Organic Compounds  
 Changes since the last version are highlighted in the margin (\*\*\*) . This version replaces all previous versions.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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.

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.

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## **Annex to the extended Safety Data Sheet (eSDS)**

### **Short title of the exposure scenario**

ES013 - Industrial applications: rolling, dipping, pouring and other processing without aerosol formation (inside)

### **Use of the substance/preparation**

Surface treatment of wood and other materials

### **Use**

SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix
PROCh01	Other processing without aerosol formation
PROCh02	roller coating industrial
PROC13	Treatment of articles by dipping and pouring

## **Contributing exposure scenario controlling environmental exposure**

### **Use**

ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix

### **Physical form**

liquid

### **Maximum amount used per time or activity**

Emission days per site: <= 300

### **Other relevant operational conditions**

Use: Room temperature  
 Drying and through-curing takes place at ambient temperature or at higher temperatures.  
 Curing takes place through UV light exposure.  
 Where possible recycling is preferred to disposal or incineration.  
 Do not allow to enter soil, waterways or waste water canal.  
 Dispose of rinse water in accordance with local and national regulations.

### **Waste water**

Do not discharge into the drains/surface waters/groundwater.

### **Exhaust air**

Keep container closed. Avoid release to the environment.

### **Soil**

Floors should be impervious, resistant to liquids and easy to clean.

### **Disposal recommendations for the product**

EWC waste code	080111 - waste paint and varnish containing organic solvents or other dangerous substances
	200127 - paint, inks, adhesives and resins containing dangerous substances

Where possible recycling is preferred to disposal or incineration.  
 Do not allow to enter drains or waterways.

### **modified product**

EWC waste code	080113 - sludges from paint or varnish containing organic
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solvents or other dangerous substances  
080115 - aqueous sludges containing paint or varnish  
containing organic solvents or other dangerous substances

**Dried residues**

EWC waste code 080112 - waste lacquers and waste paint except those  
falling under 080111

**Disposal recommendations for packaging**

EWC waste code 150110 - packaging containing residues of or contaminated  
by dangerous substances

Fully drained containers which are drop- and scrape-free can be treated as industrial waste, and can possibly be recycled.

**Contributing exposure scenario controlling worker exposure****Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites  
PROCh01 Other processing without aerosol formation  
PROCh02 roller coating industrial

**Physical form**

liquid

**Maximum amount used per time or activity**

Duration of exposure	<=	8	h/d
Frequency of exposure	<=	220	d/a

**Other relevant operational conditions**

Use: Room temperature  
Drying and through-curing takes place at ambient temperature or at higher temperatures.  
Curing takes place through UV light exposure.  
Read attached instructions before use.

**Product substance and product safety related measures**

Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

**Hand protection**

Protective gloves complying with EN 374.  
Glove material  
Multilayer gloves made from  
Appropriate Material Fluorinated rubber / butyl-rubber  
Material thickness >= 0,7  
Breakthrough time >= 30

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

The breakthrough time must be greater than the end use time of the product.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

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**Eye protection**

Wear eye glasses with side protection according to EN 166.

**Body protection**

Wear suitable protective clothing. Remove contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

**Exposure estimation and reference to its source**

**Workers (industrial)**

PROC	PROC7
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	5,057 mg/m <sup>3</sup>
Exposure assessment (method)	qualitative assessment
Risk characterisation ratio (RCR)	0,207
Lead substance	oxybis(methyl-2,1-ethanediyl) diacrylate

**Workers (industrial)**

PROC	PROC10
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	10,113 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,413
Lead substance	oxybis(methyl-2,1-ethanediyl) diacrylate

**Workers (industrial)**

PROC	PROCh02
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	10,113 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,413
Lead substance	oxybis(methyl-2,1-ethanediyl) diacrylate

**Workers (industrial)**

PROC	PROC13
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	10,113 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,413
Lead substance	oxybis(methyl-2,1-ethanediyl) diacrylate

**Workers (industrial)**

SU	SU3
PROC	PROC7
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	0,2 mg/m <sup>3</sup>
Exposure assessment (method)	Extended TRA workers (via Chesar 2.1)
Risk characterisation ratio (RCR)	0,714
Lead substance	benzophenone

**Workers (industrial)**

SU	SU3
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PROC	PROC7
Assessment method	dermal, long-term - systemic
	Indoor use
Exposure assessment	0,043 mg/kg/d
Exposure assessment (method)	Extended TRA workers (via Chesar 2.1)
Risk characterisation ratio (RCR)	0,714
Lead substance	benzophenone

**Workers (industrial)**

SU	SU3
PROC	PROC10
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	0,5 mg/m <sup>3</sup>
Exposure assessment (method)	Extended TRA workers (via Chesar 2.1)
Risk characterisation ratio (RCR)	0,989
Lead substance	benzophenone

**Workers (industrial)**

SU	SU3
PROC	PROC10
Assessment method	dermal, long-term - systemic
	Indoor use
Exposure assessment	0,027 mg/kg/d
Exposure assessment (method)	Extended TRA workers (via Chesar 2.1)
Risk characterisation ratio (RCR)	0,989
Lead substance	benzophenone

**Workers (industrial)**

SU	SU3
PROC	PROC13
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	0,1 mg/m <sup>3</sup>
Exposure assessment (method)	Extended TRA workers (via Chesar 2.1)
Risk characterisation ratio (RCR)	0,829
Lead substance	benzophenone

**Workers (industrial)**

SU	SU3
PROC	PROC13
Assessment method	dermal, long-term - systemic
	Indoor use
Exposure assessment	0,069 mg/kg/d
Exposure assessment (method)	Extended TRA workers (via Chesar 2.1)
Risk characterisation ratio (RCR)	0,829
Lead substance	benzophenone

**Workers (industrial)**

PROC	PROC7
Assessment method	inhalative
Exposure assessment	6,5 mg/m <sup>3</sup>
Exposure assessment (method)	EASY TRA v2.0
Risk characterisation ratio (RCR)	0,40074
Lead substance	glycerol, propoxylated, esters with acrylic acid

**Workers (industrial)**

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PROC	PROC7
Assessment method	Dermal exposure
Exposure assessment	0,042857 mg/kg/d
Exposure assessment (method)	EASY TRA v2.0
Risk characterisation ratio (RCR)	0,022321
Lead substance	glycerol, propoxylated, esters with acrylic acid

**Workers (industrial)**

PROC	PROC10
Assessment method	inhalative
Exposure assessment	1,3 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,080
Lead substance	glycerol, propoxylated, esters with acrylic acid

**Workers (industrial)**

PROC	PROC10
Assessment method	Dermal exposure
Exposure assessment	0,548 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,286
Lead substance	glycerol, propoxylated, esters with acrylic acid

**Workers (industrial)**

SU	SU3
PROC	PROC7
Assessment method	dermal, long-term - systemic
	Indoor use
Exposure assessment	0,2143 mg/kg/d
Exposure assessment (method)	EASY TRA v3.5
Risk characterisation ratio (RCR)	0,1714
Lead substance	2-hydroxy-2-methylpropiophenone

**Workers (industrial)**

SU	SU3
PROC	PROC7
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	1,026 mg/m <sup>3</sup>
Exposure assessment (method)	EASY TRA v3.5
Risk characterisation ratio (RCR)	0,2932
Lead substance	2-hydroxy-2-methylpropiophenone

**Workers (industrial)**

SU	SU3
PROC	PROC13
Assessment method	dermal, long-term - systemic
	Indoor use
Exposure assessment	0,686 mg/kg/d
Exposure assessment (method)	EASY TRA v3.5
Risk characterisation ratio (RCR)	0,0549
Lead substance	2-hydroxy-2-methylpropiophenone

**Workers (industrial)**

SU	SU3
PROC	PROC13
Assessment method	inhalation, long-term - systemic

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Exposure assessment	Indoor use 2,395 mg/m <sup>3</sup>
Exposure assessment (method)	EASY TRA v3.5
Risk characterisation ratio (RCR)	0,6842
Lead substance	2-hydroxy-2-methylpropiophenone
<b>Workers (industrial)</b>	
SU	SU3
PROC	PROC10
Assessment method	dermal, long-term - systemic Indoor use
Exposure assessment	0,0686 mg/kg/d
Exposure assessment (method)	EASY TRA v3.5
Risk characterisation ratio (RCR)	0,0549
Lead substance	2-hydroxy-2-methylpropiophenone
<b>Workers (industrial)</b>	
SU	SU3
PROC	PROC10
Assessment method	inhalation, long-term - systemic Indoor use
Exposure assessment	2,395 mg/m <sup>3</sup>
Exposure assessment (method)	EASY TRA v3.5
Risk characterisation ratio (RCR)	0,6842
Lead substance	2-hydroxy-2-methylpropiophenone
SU	SU3
PROC	PROC7
Assessment method	inhalation, long-term - systemic Indoor use
Exposure assessment	10,04 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,427
Lead substance	tripropylene glycole, ester with acrylic acid, reactionproduct with diethyle amine
SU	SU3
PROC	PROC7
Assessment method	dermal, long-term - systemic Indoor use
Exposure assessment	1,29 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,386
Lead substance	tripropylene glycole, ester with acrylic acid, reactionproduct with diethyle amine
SU	SU3
PROC	PROC10
Assessment method	inhalation, long-term - systemic Indoor use
Exposure assessment	6,69 mg/m <sup>3</sup>
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,285
Lead substance	tripropylene glycole, ester with acrylic acid, reactionproduct with diethyle amine
SU	SU3
PROC	PROC10

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Assessment method	dermal, long-term - systemic Indoor use
Exposure assessment	0,82 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,247
Lead substance	tripropylene glycole, ester with acrylic acid, reactionproduct with diethyle amine

## **Information on estimated exposure and downstream-user guidance**

### **Guidance for Downstream Users**

The downstream user can evaluate whether he operates within the conditions set in the exposure scenario on the basis of the information supplied. This evaluation can be conducted by an expert or using the risk assessment tools recommended by ECHA.