

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

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

1.1. Product identifier

Hesse UV Colour primer for roller coating UP 7481-9343

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 (Germany)
 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 3	H412

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



Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

Signal word

Danger

Hazard statements

H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H412 Harmful 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; phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide; acrylic resin

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

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

Polyether acrylate, amine modified

Concentration	>= 10	<	25	%
Classification (Regulation (EC) No. 1272/2008)	Aquatic Chronic 2		H411	

acrylic resin

Concentration	>= 3	<	10	%
Classification (Regulation (EC) No. 1272/2008)	Skin Irrit. 2		H315	
	Skin Sens. 1		H317	
	Eye Dam. 1		H318	
	Acute Tox. 4		H302	

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

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 3 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Sens. 1 H317
 Aquatic Chronic 2 H411

glycerol, propoxylated, esters with acrylic acid

CAS No. 52408-84-1
 EINECS no. 500-114-5
 Registration no. 01-2119487948-12
 Concentration \geq 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Eye Irrit. 2 H319
 Skin Sens. 1 H317

phosphoric acid polyester

Concentration \geq 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Eye Irrit. 2 H319

2-hydroxy-2-methylpropiophenone

CAS No. 7473-98-5
 EINECS no. 231-272-0
 Registration no. 01-2119472306-39
 Concentration \geq 1 < 6 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Route of exposure: Oral exposure

methyl benzoylformate

CAS No. 15206-55-0
 EINECS no. 239-263-3
 Registration no. 01-2120101338-67
 Concentration \geq 0,1 < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Sens. 1 H317

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

CAS No. 162881-26-7
 EINECS no. 423-340-5
 Registration no. 01-2119489401-38
 Concentration \geq 0,1 < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Sens. 1A H317
 Aquatic Chronic 4 H413

2-propenoic acid, reaction product with pentaerythrit

CAS No. 1245638-61-2

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

EINECS no.	629-850-6			
Registration no.	01-2119490003-49			
Concentration	>= 0,1	<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4		H302	Route of exposure: Oral exposure
	Skin Irrit. 2		H315	
	Eye Dam. 1		H318	
	Skin Sens. 1		H317	
	Aquatic Chronic 2		H411	

triethylene glycol diacrylate

CAS No.	1680-21-3			
EINECS no.	216-853-9			
Concentration	>= 0,1	<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Eye Irrit. 2		H319	
	Skin Irrit. 2		H315	
	Skin Sens. 1		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).

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**

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂, 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.

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

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

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)

See exposure scenario, if available.

8. Exposure controls/personal protection

8.1. Control parameters

Other information

-

Derived No/Minimal Effect Levels (DNEL/DMEL)

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

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 ³

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

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

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 ³

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

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 ³

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 ³

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

2-hydroxy-2-methylpropiophenone

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3,5	mg/m ³

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 ³

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

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

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	21	mg/m ³

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	21	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	21	mg/m ³

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	

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

Concentration	21	mg/m ³
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	3,3	mg/kg/d
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	3,3	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	3,3	mg/kg/d
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	3,3	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	5,2	mg/m ³
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	1,5	mg/kg/d
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	1,5	mg/kg/d

2-propenoic acid, reaction product with pentaerythrit

Type of value Derived No Effect Level (DNEL)

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	1,04	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	7,35	mg/m ³

methyl benzoylformate

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	3,33	mg/kg/d

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	1,67	mg/kg/d

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	1,67	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 ³

Predicted No Effect Concentration (PNEC)

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

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
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

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

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

2-hydroxy-2-methylpropiophenone

Type of value	PNEC	
Type	Freshwater	
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

2-propenoic acid, reaction product with pentaerythrit

Type of value	PNEC	
Type	Freshwater	
Concentration	0,0032	mg/l
Type of value	PNEC	
Type	marine water	
Concentration	0,00032	mg/l
Conditions	sporadic release	
Concentration	0,032	mg/l
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l
Type	Fresh water sediment	
Concentration	0,032	mg/kg
Type	saltwater sediment	
Concentration	0,0032	mg/kg
Type	Soil	
Concentration	0,0046	mg/kg

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

methyl benzoylformate

Type of value	PNEC	
Type	Water	
Concentration	0,069	mg/l
Type of value	PNEC	
Type	marine water	
Concentration	0,007	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	39	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	0,47	mg/l
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,027	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,027	mg/kg

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
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

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

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

Form	liquid	
Colour	white	
Odour	acrylic-like	
Odour threshold		
Remarks	not determined	
Melting point		
Remarks	not determined	
Freezing point		
Remarks	not determined	
Initial boiling point and boiling range		
Remarks	Not applicable	
Flash point		
Value	$>$ 60	°C
Evaporation rate		
Remarks	not determined	

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

Flammability (solid, gas)

not determined

Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

Remarks not determined

Vapour density

Remarks not determined

Density

Value	appr. 1,827			kg/l
Temperature	20	°C		

Solubility in water

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity

Remarks not determined

Efflux time

Value	39	to	53	s
Temperature	20	°C		
Method	DIN 53211 - 6 mm			

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

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

Value	100	%
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

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

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 (>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 productsCarbon monoxide and carbon dioxide, nitrous oxides (NO_x), 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

acrylic resin

Species	rat		
LD50		2000	mg/kg

2-propenoic acid, reaction product with pentaerythrit

Species	rat		
LD50		540	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

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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acrylic resin

evaluation	Irritating to skin.
------------	---------------------

triethylene glycol diacrylate

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

evaluation Skin irritation

2-propenoic acid, reaction product with pentaerythrit

Species rabbit

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

phosphoric acid polyester

evaluation Irritating to eyes.

glycerol, propoxylated, esters with acrylic acid

evaluation Irritating to eyes.

acrylic resin

evaluation Irritating to eyes.

triethylene glycol diacrylate

evaluation Eye irritation

2-propenoic acid, reaction product with pentaerythrit

Species rabbit

Observation Period 14 d

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.

acrylic resin

evaluation May cause sensitization by skin contact.

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species guinea pig

Method OECD Test Guideline 406

Remarks May cause sensitisation by skin contact.

triethylene glycol diacrylate

evaluation May cause sensitization by skin contact.

2-propenoic acid, reaction product with pentaerythrit

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)

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

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)**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.

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			

phosphoric acid polyester

Species	Leuciscus idus (Golden orfe)			
LC50	770,0			mg/l
Duration of exposure	48	h		

2-hydroxy-2-methylpropiophenone

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

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

2-propenoic acid, reaction product with pentaerythrit

Species	Cyprinus carpio (Carp)	
LC50	3,2	mg/l
Duration of exposure	96	h

2-propenoic acid, reaction product with pentaerythrit

Species	Cyprinus carpio (Carp)	
NOEC	2,2	mg/l
Duration of exposure	96	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 with acrylic acid

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

Daphnia toxicity (Components)**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	

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	Daphnia magna (Water flea)	
EC50	10 to 100	mg/l
Duration of exposure	48	h

2-propenoic acid, reaction product with pentaerythrit

Species	Daphnia magna (Water flea)	
EC50	13	mg/l
Duration of exposure	48	h

2-propenoic acid, reaction product with pentaerythrit

Species	Daphnia magna (Water flea)	
NOEC	10,3	mg/l
Duration of exposure	48	h

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	

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

2-hydroxy-2-methylpropiophenone

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

2-propenoic acid, reaction product with pentaerythrit

Species	Pseudokirchneriella subcapitata (green algae)		
ErC50	12		mg/l
Duration of exposure	96	h	

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	

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.

2-hydroxy-2-methylpropiophenone

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

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Value	1			%
Duration of test	28	d		
evaluation	Not readily biodegradable.			

2-propenoic acid, reaction product with pentaerythrit

Value	6	to	14	%
Duration of test	28	d		
evaluation	Not readily biodegradable.			

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

Value	42			%
evaluation	Not readily biodegradable.			

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

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

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

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

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	Not classified as dangerous in the meaning of transport regulations.	Not classified as dangerous in the meaning of sea and air transport regulations.	Not a dangerous substance as defined in the above regulations.

15. Regulatory information

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

VOC

VOC (EU) 0 % 0 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

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.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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 4	Hazardous to the aquatic environment, chronic, Category 4
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

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)

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

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.

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.

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

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 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
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Disposal recommendations for packaging

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

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

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

Breakthrough time \geq 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.

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 ³
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 ³
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 ³
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,413
Lead substance	oxybis(methyl-2,1-ethanediyl) diacrylate

Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

Workers (industrial)

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

Workers (industrial)

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

Workers (industrial)

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 ³
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



Trade name: Hesse UV Colour primer for roller coating UP 7481-9343

Version: 92 / GB

Revision: 11.11.2021

Replaces Version: 91 / GB

Print date: 12.11.21

Exposure assessment	1,026	mg/m ³
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	
	Indoor use	

Exposure assessment	2,395	mg/m ³
Exposure assessment (method)	EASY TRA v3.5	
Risk characterisation ratio (RCR)	0,6842	
Lead substance	2-hydroxy-2-methylpropiophenone	

Workers (industrial)

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	

Workers (industrial)

SU	SU3	
PROC	PROC10	
Assessment method	inhalation, long-term - systemic	
	Indoor use	

Exposure assessment	2,395	mg/m ³
Exposure assessment (method)	EASY TRA v3.5	
Risk characterisation ratio (RCR)	0,6842	
Lead substance	2-hydroxy-2-methylpropiophenone	

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.