

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

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

1.1. Product identifier

Hesse UV Colour Top coat for roller coating UB 75123-9343

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
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. 1	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 Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

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; trimethylolpropane triacrylate, ethoxylated (3 EO); glycerol, propoxylated, esters with acrylic acid; monoalkylor monoaryl or monoalkylaryl esters of acrylic acid

3. Composition/information on ingredients**Hazardous ingredients****acrylic resin**

Concentration	>=	10	<	25	%
Classification (Regulation (EC) No. 1272/2008)					
		Skin Irrit. 2		H315	
		Eye Irrit. 2		H319	

polyester acrylate

Concentration	>=	10	<	25	%
Classification (Regulation (EC) No. 1272/2008)					
		Eye Irrit. 2		H319	
		Skin Irrit. 2		H315	

glycerol, propoxylated, esters with acrylic acid

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

trimethylolpropane triacrylate, ethoxylated (3 EO)

CAS No.	28961-43-5				
EINECS no.	500-066-5				
Registration no.	01-2119489900-30				
Concentration	>=	1	<	10	%
Classification (Regulation (EC) No. 1272/2008)					

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

Eye Irrit. 2	H319
Skin Sens. 1B	H317

oxybis(methyl-2,1-ethanediyl) diacrylate

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

monoalkylor monoaryl or monoalkylaryl esters of acrylic acid

CAS No.	2156-97-0		
EINECS no.	218-463-4		
Registration no.	01-2119976296-23		
Concentration	>= 3	< 10	%
Classification (Regulation (EC) No. 1272/2008)			
Eye Irrit. 2	H319		
STOT SE 3	H335		Respiratory tract
Skin Irrit. 2	H315		
Aquatic Chronic 2	H411		
Skin Sens. 1	H317		

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 3	H335	>= 10 %
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methyl benzoylformate

CAS No.	15206-55-0		
EINECS no.	239-263-3		
Registration no.	01-2120101338-67		
Concentration	>= 1	< 10	%
Classification (Regulation (EC) No. 1272/2008)			
Skin Sens. 1	H317		

trimethylolpropane triacrylate

CAS No.	15625-89-5		
EINECS no.	239-701-3		
Registration no.	01-2119489896-11		
Concentration	>= 1	< 3	%
Classification (Regulation (EC) No. 1272/2008)			
Eye Irrit. 2	H319		
Skin Irrit. 2	H315		
Skin Sens. 1	H317		
Aquatic Acute 1	H400		
Aquatic Chronic 1	H410		

2-methoxy-1-methylethyl acetate

CAS No.	108-65-6		
EINECS no.	203-603-9		
Registration no.	01-2119475791-29		
Concentration	>= 1	< 10	%

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

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

Flam. Liq. 3	H226
STOT SE 3	H336

2,2'-oxydiethyl diacrylate

CAS No. 4074-88-8

EINECS no. 223-791-6

Concentration ≥ 1 < 10 %

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

Acute Tox. 3	H311	Route of exposure: Dermal exposure
Acute Tox. 4	H302	Route of exposure: Oral exposure
Eye Irrit. 2	H319	
Skin Irrit. 2	H315	
Skin Sens. 1	H317	

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Sens. 1 H317 $\geq 0,2$ %**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**

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

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 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

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

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)

2-methoxy-1-methylethyl acetate

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	275	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	153,5	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	1,67	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

Mode of action	Systemic effects	
Concentration	33	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	54,8	mg/kg

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

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

trimethylolpropane triacrylate, ethoxylated (3 EO)

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	0,5	mg/kg/d

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

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	0,8	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	0,48	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	4,9	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

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	

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

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

trimethylolpropane triacrylate

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	1,39	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	0,7	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	4,9	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	

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

Concentration 1,39 mg/kg/d

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

Predicted No Effect Concentration (PNEC)

2-methoxy-1-methylethyl acetate

Type of value PNEC
 Type Freshwater
 Concentration 0,635 mg/l

Type of value PNEC
 Type Saltwater
 Concentration 0,0635 mg/l

Type of value PNEC
 Conditions sporadic release
 Concentration 6,35 mg/l

Type of value PNEC
 Type Fresh water sediment
 Concentration 3,29 mg/kg

Type of value PNEC
 Type saltwater sediment
 Concentration 0,329 mg/kg

Type of value PNEC
 Type Soil
 Concentration 0,29 mg/kg

Type of value PNEC
 Type Sewage treatment plant (STP)

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

Concentration 100 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

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

trimethylolpropane triacrylate, ethoxylated (3 EO)

Type of value PNEC
Type Soil
Concentration 0,00587 mg/kg

Type of value PNEC
Type Fresh water sediment
Concentration 0,0082 mg/kg

Type of value PNEC
Type saltwater sediment
Concentration 0,0082 mg/kg

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

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

Conditions	sporadic release	
Concentration	0,0195	mg/l

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

trimethylolpropane triacrylate

Type of value	PNEC	
Type	Freshwater	
Concentration	0,00147	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,000147	mg/l

Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,00062	mg/kg

Type of value	PNEC	
Type	Fresh water sediment	
Concentration	0,0062	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	0,0043	mg/kg

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	6,25		mg/l
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

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

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

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	
Value	137 to 192 °C
Flash point	
Value	96 °C
Evaporation rate	
Remarks	not determined
Flammability (solid, gas)	
Remarks	not determined
Upper/lower flammability or explosive limits	
Remarks	not determined
Vapour pressure	
Remarks	not determined
Vapour density	
Remarks	not determined
Density	
Value	appr. 1,331 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

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

Decomposition temperature

Remarks not determined

Viscosity

Remarks not determined

Efflux time

Value	48	to	58	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	97,6	%
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 (>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)

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

2,2'-oxydiethyl diacrylate

ATE	500	mg/kg
Method	conversion value	

Acute dermal 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 dermal toxicity (Components)**2,2'-oxydiethyl diacrylate**

ATE	300	mg/kg
Method	conversion	

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.
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monoalkylor monoaryl or monoalkylaryl esters of acrylic acid

Species	rabbit
evaluation	Irritating to skin.

trimethylolpropane triacrylate

evaluation	Irritating to skin.
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2,2'-oxydiethyl diacrylate

evaluation	Irritating to skin.
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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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trimethylolpropane triacrylate, ethoxylated (3 EO)

Species	rabbit
Observation Period	14 d
evaluation	Irritating to eyes.

acrylic resin

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

glycerol, propoxylated, esters with acrylic acid

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

monoalkylor monoaryl or monoalkylaryl esters of acrylic acid

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

evaluation Irritating to eyes.

polyester acrylate

evaluation Irritating to eyes.

trimethylolpropane triacrylate

evaluation Irritating to eyes.

2,2'-oxydiethyl diacrylate

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.

trimethylolpropane triacrylate, ethoxylated (3 EO)

Species mouse
 evaluation May cause sensitization by skin contact.

glycerol, propoxylated, esters with acrylic acid

evaluation May cause sensitization by skin contact.

trimethylolpropane triacrylate

evaluation May cause sensitization by skin contact.

2,2'-oxydiethyl diacrylate

evaluation May cause sensitization by skin contact.

monoalkylor monoaryl or monoalkylaryl esters of acrylic acid

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)**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)**monoalkylor monoaryl or monoalkylaryl esters of acrylic acid**

Remarks May cause respiratory irritation.

2-methoxy-1-methylethyl acetate**Specific target organ toxicity - repeated exposure**

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

evaluation May cause drowsiness or dizziness.
 Organs: Nervous system

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)**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		

trimethylolpropane triacrylate

Species	zebra fish (Brachydanio rerio)		
LC50	0,87		mg/l
Duration of exposure	= 96	h	
Method	OECD 203		

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		

monoalkylor monoaryl or monoalkylaryl esters of acrylic acid

Species	Daphnia magna (Water flea)		
LC50	2,622		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		

12.2. Persistence and degradability**General information**

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

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

Biodegradability (Components)

glycerol, propoxylated, esters with acrylic acid

evaluation Readily biodegradable.

monoalkylor monoaryl or monoalkylaryl esters of acrylic acid

Value 80 to 90 %

Duration of test 28 d

evaluation Readily biodegradable.

Ready degradability (Components)

trimethylolpropane triacrylate

Value 82 to 90 %

Duration of test 28 d

Remarks 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

Bioconcentration factor (BCF) (Components)

monoalkylor monoaryl or monoalkylaryl esters of acrylic acid

BCF 381

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

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

Disposal recommendations for packaging

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

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

possibly be recycled.

14. Transport information

	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) 2,5 % 33 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**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

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.

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

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

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

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

Disposal recommendations for packaging

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.

Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

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

Workers (industrial)

PROC	PROC13
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Trade name: Hesse UV Colour Top coat for roller coating UB 75123-9343

Version: 35 / WORLD

Revision: 11.01.2021

Replaces Version: 34 / WORLD

Print date: 11.01.21

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

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.