

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Hesse CN Colour lacquer, matt PEX EB 3183-FT

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 2001
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix
PROC11	Non industrial spraying

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Flam. Liq. 2	H225
STOT SE 3	H336
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 CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/ attention.

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

contains propan-2-ol; acetone; ethyl acetate; 2-methoxy-1-methylethyl acetate

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

Hazardous ingredients

n-butyl acetate

CAS No.	123-86-4			
EINECS no.	204-658-1			
Registration no.	01-2119485493-29			
Concentration	>= 25	< 50	%	
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 3	H226		
	STOT SE 3	H336		Nervous system
		EUH066		

Hydrocarbons, C9, aromatics

CAS No.	128601-23-0			
EINECS no.	918-668-5			
Registration no.	01-2119455851-35			
Concentration	>= 3	< 10	%	
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 3	H226		
	Asp. Tox. 1	H304		
	Aquatic Chronic 2	H411		
	STOT SE 3	H335		Respiratory tract
	STOT SE 3	H336		Nervous system
		EUH066		

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

acetone

CAS No.	67-64-1			
EINECS no.	200-662-2			
Registration no.	01-2119471330-49			
Concentration	>= 1	< 4		%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Eye Irrit. 2	H319		
	STOT SE 3	H336		Nervous system
		EUH066		

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

EINECS no.	920-750-0			
Registration no.	01-2119473851-33			
Concentration	>= 3	< 10		%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Asp. Tox. 1	H304		
	Aquatic Chronic 2	H411		
	STOT SE 3	H336		Nervous system

2-methoxy-1-methylethyl acetate

CAS No.	108-65-6			
EINECS no.	203-603-9			
Registration no.	01-2119475791-29			
Concentration	>= 1	< 10		%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3	H226		
	STOT SE 3	H336		

ethyl acetate

CAS No.	141-78-6			
EINECS no.	205-500-4			
Registration no.	01-2119475103-46			
Concentration	>= 1	< 2		%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Eye Irrit. 2	H319		
	STOT SE 3	H336		Nervous system
		EUH066		

propan-2-ol

CAS No.	67-63-0			
EINECS no.	200-661-7			
Registration no.	01-2119457558-25			
Concentration	>= 1	< 2		%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Eye Irrit. 2	H319		
	STOT SE 3	H336		Nervous system

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

toluene

CAS No.	108-88-3			
EINECS no.	203-625-9			
Registration no.	01-2119471310-51			
Concentration	>= 0,1	< 1	%	
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Repr. 2	H361d		
	Asp. Tox. 1	H304		
	STOT RE 2	H373		
	Skin Irrit. 2	H315		
	STOT SE 3	H336		Nervous system

4-methylpentan-2-one

CAS No.	108-10-1			
EINECS no.	203-550-1			
Registration no.	01-2119473980-30			
Concentration	>= 0,1	< 1	%	
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Acute Tox. 4	H332		Route of exposure: Inhalation exposure
	Eye Irrit. 2	H319		
	Carc. 2	H351		
	STOT SE 3	H336		Nervous system

Amines, C16-18-alkyldimethyl

CAS No.	68390-97-6			
EINECS no.	269-915-2			
Registration no.	01-2119970967-16			
Concentration	>= 0,001	< 0,1	%	
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4	H302		
	Skin Corr. 1B	H314		
	Aquatic Acute 1	H400		
	Aquatic Chronic 1	H410		
	Eye Dam. 1	H318		

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

Aquatic Acute 1 H400 M = 100

Amines, C12-16-alkyldimethyl

CAS No.	68439-70-3			
EINECS no.	270-414-6			
Registration no.	01-2119970968-14			
Concentration	>= 0,001	< 0,1	%	
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4	H302		
	Skin Corr. 1B	H314		
	Aquatic Acute 1	H400		
	Aquatic Chronic 1	H410		

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

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Aquatic Acute 1 H400 M = 100

cellulose nitrate < =12.6 % N

CAS No. 9004-70-0

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

Expl. 1.1 H201

Note

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

If unconscious place in recovery position and seek medical advice. In all cases of doubt, or when symptoms persist, seek medical attention. 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. High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects.

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

Hints for the physician / treatment

Treat symptomatically.

SECTION 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.

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

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

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

SECTION 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.

SECTION 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. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Take measures to prevent the build up of electrostatic charge. Wear shoes with conductive soles. No sparking tools should be used. 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.

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Hints on storage assembly

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

Storage classes

Storage class according to TRGS 510 3 Flammable liquid

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

2-methoxy-1-methylethyl acetate

List	Directive 2017/164 EG			
Value	275	mg/m ³	50	ppm(V)
Short term exposure limit	550	mg/m ³	100	ppm(V)
Status:	12/2009			

2-methoxy-1-methylethyl acetate

List	EH40			
Value	274	mg/m ³	50	ppm(V)
Short term exposure limit	548	mg/m ³	100	ppm(V)
Skin resorption / sensibilisation:	Sk; Status: 01/2020			

propan-2-ol

List	EH40			
Value	999	mg/m ³	400	ppm(V)
Short term exposure limit	1250	mg/m ³	500	ppm(V)
Status:	01/2020			

acetone

List	Directive 2017/164 EG			
Value	1210	mg/m ³	500	ppm(V)
Status:	12/2009			

acetone

List	EH40			
Value	1210	mg/m ³	500	ppm(V)
Short term exposure limit	3620	mg/m ³	1500	ppm(V)
Status:	01/2020			

ethyl acetate

List	Directive 2017/164 EG			
Value	734	mg/m ³	200	ppm(V)
Short term exposure limit	1468	mg/m ³	400	ppm(V)
Status:	02/2017			

ethyl acetate

List	EH40			
Value	734	mg/m ³	200	ppm(V)
Short term exposure limit	1468	mg/m ³	400	ppm(V)
Status:	01/2020			

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

n-butyl acetate

List	EH40			
Value	724	mg/m ³	150	ppm(V)
Short term exposure limit	966	mg/m ³	200	ppm(V)
Status:	01/2020			

n-butyl acetate

List	Directive 2017/164 EG			
Value	241	mg/m ³	50	ppm(V)
Short term exposure limit	723	mg/m ³	150	ppm(V)
Status:	10/2019			

Hydrocarbons, C9, aromatics

List	EH40			
Value	500	mg/m ³		
Status:	01/2020			

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

List	EH40			
Value	1200	mg/m ³		
Status:	01/2020			

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			
Mode of action	Systemic effects			
Concentration	33			mg/m ³

Type of value	Derived No Effect Level (DNEL)			
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Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	54,8	mg/kg

propan-2-ol

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	Chronic effects	
Concentration	888	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	Chronic effects	
Concentration	500	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Chronic effects	
Concentration	89	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	Chronic effects	
Concentration	26	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	319	mg/kg/d

acetone

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	1210	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	186	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	2420	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	1210	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	62	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	62	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	200	mg/m ³

ethyl acetate

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	63	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	734	mg/m ³

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	734	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	Local effects	
Concentration	1468	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	1468	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	734	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	734	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	37	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	367	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	4,5	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	Local effects	
Concentration	367	mg/m ³

n-butyl acetate

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	11	mg/kg/d

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	600	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	Local effects	
Concentration	600	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	Local effects	
Concentration	300	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	300	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	6	mg/kg/d

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

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	2	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	300	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	300	mg/m ³

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	35,7	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	35,7	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	oral	
Mode of action	Specific effects	
Concentration	2	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	Dermal exposure	
Mode of action	Specific effects	
Concentration	6	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Route of exposure	Dermal exposure	
Mode of action	Specific effects	
Concentration	11	mg/kg/d

Hydrocarbons, C9, aromatics

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	11	mg/kg

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	25	mg/kg

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	11	mg/kg

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	150	mg/kg

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	32	mg/kg

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

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	699	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	

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Concentration	773	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)
---------------	--------------------------------

Reference group	Consumer
-----------------	----------

Duration of exposure	Long-term
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Route of exposure	Dermal exposure
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Mode of action	Systemic effects
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Concentration	699	mg/kg/d
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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	2035	mg/m³
---------------	------	-------

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	608	mg/kg/d
---------------	-----	---------

toluene

Type of value	Derived No Effect Level (DNEL)
---------------	--------------------------------

Reference group	Workers (professional)
-----------------	------------------------

Duration of exposure	Short-term
----------------------	------------

Route of exposure	inhalative
-------------------	------------

Mode of action	Local effects
----------------	---------------

Concentration	343	mg/m³
---------------	-----	-------

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	384	mg/kg
---------------	-----	-------

Type of value	Derived No Effect Level (DNEL)
---------------	--------------------------------

Reference group	Workers (professional)
-----------------	------------------------

Duration of exposure	Long-term
----------------------	-----------

Route of exposure	inhalative
-------------------	------------

Mode of action	Local effects
----------------	---------------

Concentration	192	mg/m³
---------------	-----	-------

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	192	mg/m³
---------------	-----	-------

Type of value	Derived No Effect Level (DNEL)
---------------	--------------------------------

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	384	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	226	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	226	mg/m ³

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	56,5	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	226	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	8,13	mg/kg/d

Amines, C16-18-alkyldimethyl

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Mode of action
Concentration

Local effects
mg/m³

Amines, C12-16-alkyldimethyl

Type of value
Reference group
Duration of exposure
Route of exposure
Mode of action
Concentration

Derived No Effect Level (DNEL)
Workers (industrial)
Long-term
inhalative
Local effects
1

mg/m³

Type of value
Reference group
Duration of exposure
Route of exposure
Mode of action
Concentration

Derived No Effect Level (DNEL)
Workers (industrial)
Short-term
inhalative
Local effects
1

mg/m³

4-methylpentan-2-one

Type of value
Reference group
Duration of exposure
Route of exposure
Mode of action
Concentration

Derived No Effect Level (DNEL)
Workers (professional)
Short-term
inhalative
Systemic effects
208

mg/m³

Type of value
Reference group
Duration of exposure
Route of exposure
Mode of action
Concentration

Derived No Effect Level (DNEL)
Workers (professional)
Short-term
inhalative
Local effects
208

mg/m³

Type of value
Reference group
Duration of exposure
Route of exposure
Mode of action
Concentration

Derived No Effect Level (DNEL)
Workers (professional)
Long-term
inhalative
Systemic effects
83

mg/m³

Type of value
Reference group
Duration of exposure
Route of exposure
Mode of action
Concentration

Derived No Effect Level (DNEL)
Workers (professional)
Long-term
inhalative
Local effects
83

mg/m³

Type of value
Reference group
Duration of exposure
Route of exposure
Mode of action
Concentration

Derived No Effect Level (DNEL)
Workers (professional)
Long-term
Dermal exposure
Systemic effects
11,8

mg/kg/d

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

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	14,7	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	14,7	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	155,2	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	155,2	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	4,2	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	4,2	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

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

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)	
Concentration	100	mg/l
propan-2-ol		
Type of value	PNEC	
Type	Freshwater	
Concentration	140,9	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	140,9	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	140,9	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	552	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	552	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	28	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	2251	mg/l

acetone

Type of value	PNEC	
Type	Freshwater	



Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Concentration	10,6	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	1,06	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	30,4	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	3,04	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	29,5	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	21	mg/l
ethyl acetate		
Type of value	PNEC	
Type	Saltwater	
Concentration	0,026	mg/l
Type of value	PNEC	
Type	Freshwater	
Concentration	0,26	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0,24	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	650	mg/l
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,125	mg/kg
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	1,25	mg/kg
Type of value	PNEC	
Conditions	sporadic release	

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Concentration 1,65 mg/l

n-butyl acetate

Type of value PNEC
Type Freshwater
Concentration 0,18 mg/l

Type of value PNEC
Type Saltwater
Concentration 0,018 mg/l

Type of value PNEC
Type Sewage treatment plant (STP)
Concentration 35,6 mg/l

Type of value PNEC
Type Water
Conditions sporadic release
Concentration 0,36 mg/l

Type of value PNEC
Type Fresh water sediment
Concentration 0,981 mg/kg

Type of value PNEC
Type saltwater sediment
Concentration 0,0981 mg/l

Type of value PNEC
Type Soil
Concentration 0,0903 mg/kg

toluene

Type of value PNEC
Type Freshwater
Concentration 0,68 mg/l

Type of value PNEC
Type Fresh water sediment
Concentration 16,39 mg/kg

Type of value PNEC
Type Soil
Concentration 2,89 mg/kg

Type of value PNEC
Type Sewage treatment plant (STP)
Concentration 13,61 mg/l

Amines, C16-18-alkyldimethyl

Type of value PNEC
Type Freshwater



Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Concentration	0,26	µg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,003	µg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	130	µg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	1,25	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,125	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	1	mg/kg

Amines, C12-16-alkyldimethyl

Type of value	PNEC	
Type	Freshwater	
Concentration	0,26	µg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,03	µg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	130	µg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	1,25	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,125	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	1	mg/kg

4-methylpentan-2-one

Type of value	PNEC	
Type	Freshwater	
Concentration	0,6	mg/l
Type of value	PNEC	

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Type	Saltwater	
Concentration	0,06	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	1,5	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	27,5	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	8,27	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,83	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	1,3	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.

Respiratory protection

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol. Recommended Filter type: Respiratory protection mask with combination filter A/P2

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

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	coloured
Odour	solvent-like
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Boiling point or initial boiling point and boiling range	
Value	55,8 to 214 °C
Flammability	
Remarks	not determined
Upper and lower explosive limits	
Remarks	not determined
Flash point	
Value	< 21 °C
Ignition temperature	
Remarks	not determined
Decomposition temperature	
Remarks	not determined
Viscosity	
Remarks	not determined
Solubility(ies)	
Remarks	not determined
Partition coefficient n-octanol/water (log value)	
Remarks	not determined
Vapour pressure	
Remarks	not determined
Density and/or relative density	
Value	appr. 1,061 kg/l
Temperature	20 °C
Relative vapour density	
Remarks	not determined
Particle characteristics	
Remarks	not determined

9.2. Other information

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Odour threshold

Remarks not determined

Evaporation rate

Remarks not determined

Solubility in water

Remarks not determined

Efflux time

Value 36 to 44 s
Temperature 20 °C
Method DIN 53211 4 mm

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Non-volatile content

Value 32 %
Method calculated value

Other information

This information is not available.

SECTION 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

Isolate from sources of heat, sparks and open flame.

10.5. Incompatible materials

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

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

Acute oral toxicity (Components)

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Amines, C16-18-alkyldimethyl

Species	rat	
LD50	1450	mg/kg
Method	OECD 401	

Amines, C12-16-alkyldimethyl

Species	rat	
LD50	1450	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.

Acute inhalative toxicity (Components)

4-methylpentan-2-one

ATE	11	mg/l
Administration/Form	Vapors	
Source	Annex VI Hazardous Substance	

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)

toluene

Species	rabbit	
Duration of exposure	4	h
Observation Period	7	d
evaluation	Irritating to skin.	
Method	EEC 84/449, B.4	
Source	1 (reliable without restriction)	

Amines, C16-18-alkyldimethyl

Species	rabbit
evaluation	Causes burns.

Amines, C12-16-alkyldimethyl

Species	rabbit
evaluation	Causes burns.

Serious eye damage/irritation

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

Serious eye damage/irritation (Components)

propan-2-ol

Species	rabbit	
Observation Period	14	d
evaluation	Irritating to eyes.	
Source	1 (reliable without restriction)	

acetone

Species	rabbit	
Observation Period	24	h

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

evaluation
Source Irritating to eyes.
1 (reliable without restriction)

ethyl acetate

Species rabbit
Observation Period 24 h
evaluation Irritating to eyes.
Source 2 (reliable with restrictions)

Amines, C16-18-alkyldimethyl

Amines, C12-16-alkyldimethyl

4-methylpentan-2-one

Species rabbit
Observation Period 72 h
evaluation Irritating to eyes and respiratory system.
Source 1 (reliable without restriction)

Sensitization

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

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.

Reproduction toxicity (Components)

toluene

evaluation Reproductive toxicity, Category 2

Carcinogenicity

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

Carcinogenicity (Components)

4-methylpentan-2-one

evaluation Suspected of causing cancer.

Specific Target Organ Toxicity (STOT)

Single exposure

Method Calculation method (Regulation (EC) No. 1272/2008)
Remarks The classification criteria are met.
evaluation May cause drowsiness or dizziness.

Repeated exposure

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

Specific Target Organ Toxicity (STOT) (Components)

propan-2-ol

Specific target organ toxicity - single exposure

Organs: Nervous system
Remarks Possible narcotic effects (drowsiness, dizziness).

acetone

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Specific target organ toxicity - repeated exposure

Remarks
Organs: Nervous system
Possible narcotic effects (drowsiness, dizziness).

ethyl acetate

Specific target organ toxicity - single exposure

Remarks
Organs: Nervous system
Possible narcotic effects (drowsiness, dizziness).

n-butyl acetate

Specific target organ toxicity - repeated exposure

Remarks
Organs: Nervous system
Possible narcotic effects (drowsiness, dizziness).

toluene

Specific target organ toxicity - single exposure

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

toluene

Specific target organ toxicity - repeated exposure

Remarks
Organs: Nervous system
Possible narcotic effects (drowsiness, dizziness).

Hydrocarbons, C9, aromatics

Specific target organ toxicity - single exposure

Remarks
Route of exposure inhalative
Possible narcotic effects (drowsiness, dizziness).

Hydrocarbons, C9, aromatics

Specific target organ toxicity - single exposure

Remarks
Possible narcotic effects (drowsiness, dizziness).

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Specific target organ toxicity - single exposure

evaluation
May cause drowsiness or dizziness.
Remarks
Organs: Nervous system
Possible narcotic effects (drowsiness, dizziness).

2-methoxy-1-methylethyl acetate

Specific target organ toxicity - repeated exposure

evaluation
May cause drowsiness or dizziness.
Organs: Nervous system

4-methylpentan-2-one

Specific target organ toxicity - single exposure

Organs: Nervous system

Aspiration hazard

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

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Other information

No toxicological data are available.

SECTION 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)

Hydrocarbons, C9, aromatics

Species	Oncorhynchus mykiss (rainbow trout)		
LC50	9,2		mg/l
Duration of exposure	96	h	

Daphnia toxicity (Components)

Hydrocarbons, C9, aromatics

Species	Daphnia magna (Water flea)		
EC50	3,2		mg/l
Duration of exposure	48	h	

Hydrocarbons, C9, aromatics

Species	Daphnia magna (Water flea)		
NOEC	2,14		mg/l
Duration of exposure	21	d	

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Species	Daphnia magna (Water flea)		
EC50	3		mg/l
Duration of exposure	48	h	

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Species	Daphnia magna (Water flea)		
NOEC	0,17		mg/l
Duration of exposure	21	d	

Amines, C16-18-alkyldimethyl

Species	Daphnia magna (Water flea)		
NOEC	0,036		mg/l
Duration of exposure	21	d	

Amines, C12-16-alkyldimethyl

Species	Daphnia magna (Water flea)		
NOEC	0,036		mg/l
Duration of exposure	21	d	

Algae toxicity (Components)

Hydrocarbons, C9, aromatics

Species	Pseudokirchneriella subcapitata (green algae)		
EC50	2,6	to	2,9 mg/l
Duration of exposure	72	h	

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Species	Pseudokirchneriella subcapitata (green algae)		
EC50	10		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Amines, C16-18-alkyldimethyl

Species	Desmodesmus subspicatus	
EC50	0,0099	mg/l
Duration of exposure	72	h
Method	OECD 201	

Amines, C12-16-alkyldimethyl

Species	Desmodesmus subspicatus	
EC50	0,0099	mg/l
Duration of exposure	72	h
Method	OECD 201	

12.2. Persistence and degradability

General information

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

Biodegradability (Components)

Hydrocarbons, C9, aromatics

evaluation Readily biodegradable.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

evaluation Readily biodegradable.

Amines, C16-18-alkyldimethyl

Value	>	75	%
Duration of test		28	d
evaluation			Readily biodegradable.

Amines, C12-16-alkyldimethyl

Value	>	75	%
Duration of test		28	d

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 (log value)

Remarks not determined

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.

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. 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.

SECTION 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
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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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Completely emptied packagings can be given for recycling.

SECTION 14: Transport information




Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Special provision	640D		
Limited Quantity	5 l		
Transport category	2		

SECTION 15: Regulatory information

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

VOC

VOC (EU) 69 % 673 g/l

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

EUH066	Repeated exposure may cause skin dryness or cracking.
H201	Explosive; mass explosion hazard.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 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
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Expl. 1.1	Explosive, Division 1.1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Abbreviations

Flam. Liq - Flammable liquids
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.

Print date: 16.01.23

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

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

Disposal recommendations for packaging

EWC waste code

150110 - packaging containing residues of or contaminated by dangerous substances

Completely emptied packagings can be given for recycling.

Contributing exposure scenario controlling worker exposure (professional)

Short title of the exposure scenario

Substance number:CES006

Use

SU22

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

PROC11

Non industrial spraying

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.

Volatile organic substances will volatilise into the atmospheric air inside.

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.

Respiratory protection

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol.

Recommended Filter type: Respiratory protection mask with combination filter A/P2

Hand protection

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness >= 0,7

Breakthrough time >= 30

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

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

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 (professional)

SU	SU22
PROC	PROC11
Assessment method	Long-term inhalative
Exposure assessment	242 mg/m ³
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,504
Lead substance	n-butyl acetate

Workers (professional)

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - systemic
Exposure assessment	200 mg/m ³
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,6
Lead substance	acetone

Workers (professional)

SU	SU22
PROC	PROC10
Assessment method	dermal, long-term - systemic
Exposure assessment	62 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,15
Lead substance	acetone

Workers (professional)

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - systemic
Exposure assessment	200 mg/m ³
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,4
Lead substance	acetone

Workers (professional)

SU	SU22
PROC	PROC11

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Assessment method	dermal, long-term - systemic
Exposure assessment	62 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,01
Lead substance	acetone

Workers (professional)

SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - systemic
Exposure assessment	200 mg/m ³
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,5
Lead substance	acetone

Workers (professional)

SU	SU22
PROC	PROC13
Assessment method	dermal, long-term - systemic
Exposure assessment	62 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,07
Lead substance	acetone

Workers (professional)

SU	SU22
PROC	PROC10
Assessment method	dermal, long-term - systemic
Exposure assessment	63 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,022
Lead substance	ethyl acetate

Workers (professional)

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - local
Exposure assessment	734 mg/m ³
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,018
Lead substance	ethyl acetate

Workers (professional)

SU	SU22
PROC	PROC11
Assessment method	dermal, long-term - systemic
Exposure assessment	63 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,034
Lead substance	ethyl acetate

Workers (professional)

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - local
Exposure assessment	734 mg/m ³

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

ECETOC TRA
0,018
ethyl acetate

Workers (professional)

SU
PROC
Assessment method
Exposure assessment
Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

SU22
PROC13
inhalation, long-term - local and systemic
55,08 mg/m³
ECETOC TRA
0,2
2-methoxy-1-methylethyl acetate

Workers (professional)

SU
PROC
Assessment method
Exposure assessment
Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

SU22
PROC13
dermal, long-term - local and systemic
13,71 mg/kg/d
ECETOC TRA
0,09
2-methoxy-1-methylethyl acetate

Workers (professional)

SU
PROC
Assessment method
Exposure assessment
Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

SU22
PROC10
inhalation, long-term - local and systemic
137,71 mg/m³
ECETOC TRA
0,5
2-methoxy-1-methylethyl acetate

Workers (professional)

SU
PROC
Assessment method
Exposure assessment
Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

SU22
PROC10
dermal, long-term - local and systemic
27,43 mg/kg/d
ECETOC TRA
0,18
2-methoxy-1-methylethyl acetate

Workers (professional)

SU
PROC
Assessment method

Exposure assessment
Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

SU22
PROC11
inhalation, long-term - local and systemic
Indoor use
27,54 mg/m³
ECETOC TRA
0,1
2-methoxy-1-methylethyl acetate

Workers (professional)

SU
PROC
Assessment method

Exposure assessment

SU22
PROC11
dermal, long-term - local and systemic
Indoor use
2,14 mg/kg/d

Trade name: Hesse CN Colour lacquer, matt PEX EB 3183-FT

Version: 10 / GB

Revision: 16.12.2022

Replaces Version: 9 / GB

Print date: 16.01.23

Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

ECETOC TRA
0,01
2-methoxy-1-methylethyl acetate

Workers (professional)

SU
PROC
Assessment method

SU22
PROC11
inhalation, long-term - local and systemic
Outdoor use

Exposure assessment
Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

55,08 mg/m³
ECETOC TRA
0,2
2-methoxy-1-methylethyl acetate

Workers (professional)

SU
PROC
Assessment method

SU22
PROC11
dermal, long-term - local and systemic
Outdoor use

Exposure assessment
Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

107,14 mg/kg/d
ECETOC TRA
0,7
2-methoxy-1-methylethyl acetate

SU
Assessment method

SU21
dermal, long-term - systemic
Indoor use

Exposure assessment
Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

6 mg/kg/d
ConsExpo v4.1
0,11
2-methoxy-1-methylethyl acetate

SU
Assessment method

SU21
inhalation, long-term - systemic
Indoor use

Exposure assessment
Exposure assessment (method)
Risk characterisation ratio (RCR)
Lead substance

6,83 mg/m³
ConsExpo v4.1
0,6
2-methoxy-1-methylethyl acetate

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.