

Trade name: Hesse PU Cellulose lacquer DE 45002-0016

Version: 38 / GB Revision: 06.08.2020
Replaces Version: 37 / GB Print date: 17.08.20

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

1.1. Product identifier

Hesse PU Cellulose lacquer DE 45002-0016

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 1000

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

PROC7 Industrial spraying

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

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)

Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336 Asp. Tox. 1 H304

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



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Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H304 May be fatal if swallowed and enters airways.

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.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.

P331 Do NOT induce vomiting.

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

contains butanone; acetone; isobutyl acetate; 2-methoxy-1-methylethyl acetate

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

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

3. Composition/information on ingredients

Hazardous ingredients

n-butyl acetate

CAS No. 123-86-4 EINECS no. 204-658-1

Registration no. 01-2119485493-29

Concentration >= 20 < 25 %

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

Flam. Liq. 3 H226

STOT SE 3 H336 Nervous system

EUH066

isobutyl acetate

CAS No. 110-19-0



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EINECS no. 203-745-1

Registration no. 01-2119488971-22

Concentration >= 10 < 20 %

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

Flam. Liq. 2 H225

STOT SE 3 H336 Nervous system

EUH066

butanone

CAS No. 78-93-3 EINECS no. 201-159-0

Registration no. 01-2119457290-43

Concentration >= 1 < 10 %

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

Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336

STOT SE 3 H336 Nervous system

EUH066

xylene

CAS No. 1330-20-7 EINECS no. 215-535-7

Registration no. 01-2119488216-32

Concentration >= 1 < 10 %

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

Flam. Liq. 3 H226

Acute Tox. 4 H332 Route of exposure: Inhalation

exposure

Acute Tox. 4 H312 Route of exposure: Dermal

exposure

 Skin Irrit. 2
 H315

 Asp. Tox. 1
 H304

STOT SE 3 H335 Respiratory tract Eye Irrit. 2 H319

4-methylpentan-2-one

CAS No. 108-10-1 EINECS no. 203-550-1

Registration no. 01-2119473980-30

Concentration >= 1 < 10 %

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

Flam. Liq. 2 H225

Acute Tox. 4 H332 Route of exposure: Inhalation

exposure

Eye Irrit. 2 H319

STOT SE 3 H335 Respiratory tract

EUH066

acetone

CAS No. 67-64-1 EINECS no. 200-662-2

Registration no. 01-2119471330-49



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Concentration >= 1 < 10 %

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

Flam. Liq. 2 H225 Eye Irrit. 2 H319

STOT SE 3 H336 Nervous system

EUH066

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

ethylbenzene

CAS No. 100-41-4 EINECS no. 202-849-4

Registration no. 01-2119489370-35

Concentration >= 1 < 4 %

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

Flam. Liq. 2 H225

Acute Tox. 4 H332 Route of exposure: Inhalation

exposure

STOT RE 2 H373 Ear

Asp. Tox. 1 H304

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

CAS No. 64742-48-9 EINECS no. 919-857-5

Registration no. 01-2119463258-33

Concentration >= 1 < 10 %

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

Flam. Liq. 3 H226 Asp. Tox. 1 H304

STOT SE 3 H336 Nervous system

EUH066

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.

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

4. First aid measures

4.1. Description of first aid measures



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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.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist

Non suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Special protective equipment for fire-fighting

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

Other information

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.

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



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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 no 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.

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.



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8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

2-methoxy-1-methylethyl ace	tate			
List		e 2017/164 EG		
Value	275	mg/m³	50	ppm(V)
Short term exposure limit	550	mg/m³	100	ppm(V)
Status: 12/2009		9,		PP(1)
2-methoxy-1-methylethyl ace				
List	EH40			
Value	274	mg/m³	50	ppm(V)
Short term exposure limit Skin resorption / sensibilisation	548	mg/m³	100	ppm(V)
4-methylpentan-2-one	JII. SK, Sla	lus. 01/2020		
List	Directive	e 2017/164 EG		
Value	83	mg/m ³	20	ppm(V)
Short term exposure limit	208	mg/m³	50	ppm(V)
Status: 12/2009	200	a,	30	PP'''(*)
4-methylpentan-2-one				
List	EH40			
Value	208	mg/m³	50	ppm(V)
Short term exposure limit	416	mg/m³	100	ppm(V)
Skin resorption / sensibilisation	on: Sk; Sta	tus: 01/2020		
butanone	5	001=1101=0		
List		e 2017/164 EG	000	0.0
Value	600	mg/m³	200	ppm(V)
Short term exposure limit Status: 12/2009	900	mg/m³	300	ppm(V)
butanone				
List	EH40			
Value	600	mg/m³	200	ppm(V)
Short term exposure limit	899	mg/m³	300	ppm(V)
Skin resorption / sensibilisation	on: Sk; Sta	tus: 01/2020		
acetone	-	00.1=110:=0		
List		e 2017/164 EG	5 00	4.4
Value	1210	mg/m³	500	ppm(V)
Status: 12/2009				
acetone	E1140			
List	EH40		500	
Value	1210	mg/m³	500	ppm(V)
Short term exposure limit Status: 01/2020	3620	mg/m³	1500	ppm(V)
isobutyl acetate				
List	EH40			
Value	724	mg/m³	150	ppm(V)
Short term exposure limit Status: 01/2020	903	mg/m³	187	ppm(V)
isobutyl acetate				



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List Directive 2017/164 EG

Value 241 ma/m³ 50 ppm(V) Short term exposure limit 723 mg/m³ 150 ppm(V)

Status: 10/2019

n-butyl acetate

List EH40

Value 724 mg/m³ 150 ppm(V) Short term exposure limit mg/m³ 200 ppm(V) 966

Status: 01/2020

n-butyl acetate

List Directive 2017/164 EG

Value 241 mg/m³ 50 ppm(V) Short term exposure limit 723 mg/m³ 150 ppm(V)

Status: 10/2019

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

List EH40

Value 1200 mg/m³

Status: 01/2020

xylene

List Directive 2017/164 EG

50 Value 221 mg/m³ ppm(V) Short term exposure limit 442 mg/m³ 100 ppm(V)

Skin resorption / sensibilisation: H; Status: 12/2009

xylene

List EH40

Value 220 mg/m³ 50 ppm(V) Short term exposure limit 441 mg/m³ 100 ppm(V)

Skin resorption / sensibilisation: Sk; Status: 01/2020

ethylbenzene

List Directive 2017/164 EG

Value 442 mg/m³ 100 ppm(V) Short term exposure limit 884 mg/m³ 200 ppm(V)

Status: 12/2009

ethylbenzene

List EH40

Value 441 mg/m³ 100 ppm(V) Short term exposure limit 552 mg/m³ 125 ppm(V)

Skin resorption / sensibilisation: Sk; 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 mg/m³ 275

Type of value Derived No Effect Level (DNEL)



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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

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Oral exposure

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/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

Systemic effects

Concentration 54,8 mg/kg

isobutyl 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 10 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 300 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action
Consentration
Local effects
200

Concentration 300 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Long-term
Route of exposure Dermal exposure



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Mode of action Systemic effects

Concentration 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 Systemic effects

Concentration 35,7 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

inhalative

Local effects

Concentration

35,7

Concentration 35,7 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Short-term

Route of exposure inhalative

Mode of action Systemic off

Mode of action Systemic effects

Concentration 300 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Short-term
inhalative

Local effects

Concentration

300

Concentration 300 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 600 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 Local effects
Concentration 600

Concentration 600 mg/m³

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



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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/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure

Route of exposure

Mode of action

Consentration

Short-term inhalative
Local effects

Concentration 600 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action
Concentration
Local effects

Concentration 300 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 300 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

Systemic effects

Concentration 6 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Oral exposure

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/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Short-term
Route of exposure inhalative



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Mode of action Local effects

Concentration 300 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 35,7 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

inhalative

Local effects

Concentration 35,7 mg/m³

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Consumer

Long-term

Oral exposure

Concentration 125 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term
Route of exposure Dermal exposure

Concentration 208 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Long-term
Route of exposure Dermal exposure

Concentration 125 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term
Route of exposure inhalative

Concentration 871 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Route of exposure inhalative

Concentration 185 mg/kg

4-methylpentan-2-one

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Short-term
Route of exposure inhalative



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Mode of action Systemic effects

Concentration 208 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure

Route of exposure

Mode of action

Consentation

Short-term
inhalative
Local effects

Concentration 208 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 83 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 Local effects
Concentration 83

Concentration 83 mg/m³

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 11,8 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consentration

Concentration 14,7 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

inhalative

Local effects

Concentration 14,7 mg/m³

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/m³

Type of value Derived No Effect Level (DNEL)



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Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Short-term

inhalative

Local effects

Concentration

155.2

155,2 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

Systemic effects

Concentration 4,2 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Oral exposure

Systemic effects

Concentration 4,2 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/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action

Consequently

Long-term
Dermal exposure
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

Concentration 2420 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 1210 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Long-term
Route of exposure Oral exposure



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Mode of action Systemic effects

Concentration 62 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

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/m³

xylene

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

Systemic effects

Concentration 108 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term
Route of exposure Dermal exposure
Mode of action Systemic effects

Concentration 180 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

inhalative

Systemic effects

Concentration 14,8 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer
Short-term
inhalative
Systemic effects

Concentration 174 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer
Short-term
inhalative
Local effects

Concentration 174 mg/m³



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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 Local effects
Concentration 77

77 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 77 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure

Route of exposure

Mode of action

Systemic effects

Concentration 289 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 Local effects

Concentration 289 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Oral exposure

Systemic effects

Concentration 1,6 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Short-term
Route of exposure Dermal exposure
Mode of action Local effects

Concentration 174 mg/kg/d

butanone

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure

Route of exposure

Consentration

Concentration 600 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)
Duration of exposure Long-term

Route of exposure Long-term

Dermal exposure Dermal exposure



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Concentration 1161 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term
Route of exposure inhalative
Concentration 60

Concentration 600 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term

Route of exposure Dermal exposure

Concentration 1161 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Consentration

Consentration

Consentration

Consentration

Concentration 106 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Route of exposure Oral exposure

Concentration 31 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Pour of exposure Dormal exp

Route of exposure Dermal exposure

Concentration 412 mg/kg/d

ethylbenzene

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action
Systemic effects

Concentration 289 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 77 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 Local effects

Concentration 289 mg/m³



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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 Local effects
Concentration 77

Concentration 77 mg/m³

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 18 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 174 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Short-term
inhalative
Local effects

Concentration 174 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 14,8 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

Systemic effects

Concentration 108 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Oral exposure

Systemic effects

Concentration 1,6 mg/kg/d

Predicted No Effect Concentration (PNEC)

2-methoxy-1-methylethyl acetate



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Type of value PNEC Type Freshwater

Concentration 0,635 mg/l

Type of value PNEC 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)

Concentration 100 mg/l

isobutyl acetate

Type of value PNEC Freshwater

Concentration 0,17 mg/l

Type of value PNEC
Type Saltwater

Concentration 0,017 mg/l

Type of value PNEC Type Water

Conditions sporadic release

Concentration 0,34 mg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 200 mg/l

Type of value PNEC

Type Fresh water sediment

Concentration 0,877 mg/kg

Type of value PNEC

Type saltwater sediment

Concentration 0,0877 mg/kg



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Type of value PNEC Type Soil

Concentration 0,0755 mg/kg

n-butyl acetate

Type of value PNEC
Type Freshwater

Concentration 0,18 mg/l

Type of value PNEC 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

4-methylpentan-2-one

Type of value PNEC
Type Freshwater

Concentration 0,6 mg/l

Type of value PNEC
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



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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

acetone

Type of value PNEC Freshwater

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

butanone

Type of value PNEC
Type Freshwater

Concentration 55,8 mg/l

Type of value PNEC
Type Saltwater

Concentration 55,8 mg/l

Type of value PNEC

Type Fresh water sediment

Concentration 284,74 mg/kg



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Type of value PNEC

Type saltwater sediment

Concentration 287,7 mg/kg

Type of value PNEC Type Soil

Concentration 22,5 mg/kg

xylene

Type of value PNEC
Type Freshwater

Concentration 0,327 mg/l

Type of value PNEC
Type Saltwater

Concentration 0,327 mg/l

Type of value PNEC

Type Fresh water sediment

Concentration 12,46 mg/kg

Type of value PNEC

Type saltwater sediment

Concentration 12,46 mg/kg

Type of value PNEC Type Soil

Concentration 2,31 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 6,58 mg/l

ethylbenzene

Type of value PNEC
Type Freshwater

Concentration 0,327 mg/l

Type of value PNEC

Type Fresh water sediment

Concentration 12,46 mg/kg

Type of value PNEC Type Soil

Concentration 2,31 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 6,58 mg/l

8.2. Exposure controls



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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 >= 0,7 mm Breakthrough time >= 30 min

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

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

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

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

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

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

Eye protection

Wear eye glasses with side protection according to EN 166.

Body protection

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

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid colourless Odour solvent-like

Odour threshold

Remarks not determined

pH value

Remarks not determined

Melting point

Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

Value 55,8 to 190 °C



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Flash point

Value 6 °C

Evaporation rate

Remarks not determined

Flammability (solid, gas)

not determined

Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

Remarks not determined

Vapour density

Remarks not determined

Density

Value appr. 0,9 kg/l

Temperature 20 °C

Solubility in water

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity

Remarks not determined

Efflux time

Value 48 to 72 s

Temperature 20 °C

Method DIN EN ISO 2431 - 4 mm

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

9.2. Other information

Non-volatile content

Value 19,1 %

Method calculated value

Other information

This information is not available.

10. Stability and reactivity



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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 (NOx), dense black smoke, No decomposition if used as prescribed.

11. Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Method Calculation method (Regulation (EC) No. 1272/2008)

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

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)

xylene

ATE 2000 mg/kg

Source alle Daten über 2000 mg/kg

Acute inhalational toxicity

ATE 11,0223 mg/l

Administration/Form Dust/Mist

Method calculated value (Regulation (EC) No. 1272/2008)

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

Acute inhalative toxicity (Components)

4-methylpentan-2-one

Species rat

LC50 2,9 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist

Source 2 (reliable with restrictions)

xylene

ATE 5 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist



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Source alle Werte über 5 mg/l

ethylbenzene

ATE 1,5 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist conversion value

Remarks Mist

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)

xylene

Species rabbit

Observation Period 72 h evaluation Irritating to skin.

Source 2 (reliable with restrictions)

Serious eye damage/irritation

evaluation irritant

Method Calculation method (Regulation (EC) No. 1272/2008)

Remarks The classification criteria are met.

Serious eye damage/irritation (Components)

4-methylpentan-2-one

Species rabbit

Observation Period 72 h

evaluation Irritating to eyes and respiratory system.

Source 1 (reliable without restriction)

butanone

Species rabbit

Observation Period 7 d
evaluation Severe eye irritation
Source 2 (reliable with restrictions)

acetone

Species rabbit

Observation Period 24 h evaluation Irritating to eyes.

Source 1 (reliable without restriction)

xylene

Species rabbit

evaluation Irritating to eyes.

Source 2 (reliable with restrictions)

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)



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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 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)

4-methylpentan-2-one

evaluation May cause respiratory irritation.

Route of exposure Inhalation exposure Organs: Nose, respiratory system, eyes

Remarks May cause respiratory irritation.

butanone

Specific target organ toxicity - single exposure

Organs: Nervous system

Remarks Possible narcotic effects (drowsiness, dizziness).

acetone

Specific target organ toxicity - repeated exposure

Organs: Nervous system

Remarks Possible narcotic effects (drowsiness, dizziness).

isobutyl acetate

Specific target organ toxicity - repeated exposure

Organs: Nervous system

Remarks Possible narcotic effects (drowsiness, dizziness).

n-butyl acetate

Specific target organ toxicity - repeated exposure

Organs: Nervous system

Remarks Possible narcotic effects (drowsiness, dizziness).

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Specific target organ toxicity - repeated exposure

Organs: Nervous system

Remarks Possible narcotic effects (drowsiness, dizziness).

xylene

Specific target organ toxicity - single exposure

Route of exposure inhalative Organs: Respiratory tract

Remarks May cause respiratory irritation.

2-methoxy-1-methylethyl acetate

Specific target organ toxicity - repeated exposure

evaluation May cause drowsiness or dizziness.

Organs: Nervous system



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Aspiration hazard

The classification criteria are met.

Harmful: may cause lung damage if swallowed.

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.

Daphnia toxicity (Components)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Species Daphnia magna (Water flea)

EC50 22 46 mg/l

Duration of exposure 48 h Method OECD 202, part 1, static

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Species Daphnia magna (Water flea)

NOELR 0,23 mg/l

Duration of exposure 21 d Method QSAR modelled data

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-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Value 53,4 %

Duration of test 28 d evaluation Not readily biodegradable.

12.3. Bioaccumulative potential

General information

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

Partition coefficient: n-octanol/water

Remarks not determined

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.



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12.6. Other adverse effects

General information

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

General information / ecology

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

13. Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 080111 - waste paint and varnish containing organic

solvents or other dangerous substances

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

dangerous substances

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

modified product

EWC waste code 080113 - sludges from paint or varnish containing organic

solvents or other dangerous substances

EWC waste code 080115 - aqueous sludges containing paint or varnish

containing organic solvents or other dangerous substances

Dried residues

EWC waste code 080112 - waste lacquers and waste paint except those

falling under 080111

Disposal recommendations for packaging

EWC waste code 150110 - packaging containing residues of or contaminated

by dangerous substances

Completely emptied packagings can be given for recycling. Completely emptied packagings can be given for recycling.

14. Transport information



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	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	**	***	3
14.4. Packing group	II	II	II
Special provision	640D		
Limited Quantity	51		
Transport category	2		

15. Regulatory information

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

VOC

VOC (EU) 80,9 % 728 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

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.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.



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H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

CLP categories listed in Chapter 3

Acute Tox. 4
Asp. Tox. 1
Aspiration hazard, Category 1
Expl. 1.1
Eye Irrit. 2
Flam. Liq. 2
Flam. Liq. 3
Skin Irrit. 2
Acute toxicity, Category 4
Aspiration hazard, Category 1
Explosive, Division 1.1
Eye irritation, Category 2
Flammable liquid, Category 2
Flammable liquid, Category 3
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 theInternational 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 Econpmic 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

ES001 - Industrial applications: industrial spraying (inside)

Use of the substance/preparation

Surface treatment of wood and other materials

Use



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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

PROC7 Industrial spraying

Contributing exposure scenario controlling environmental exposure

Use

ERC4 Industrial use of processing aids in processes and products, not becoming part of

articles

ERC5 Industrial use resulting in inclusion into or onto a matrix

Physical form liquid

Maximum amount used per time or activity

Emission days per site: <= 300

Other relevant operational conditions

Use: Room temperature

Drying and through-curing takes place at ambient temperature or at higher temperatures.

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. Spray cabin waters are to be conducted after mechanical pretreatment into a wastewater treatment facility.

Exhaust air

Keep container closed. Avoid release to the environment.

Soil

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

Disposal recommendations for the product

EWC waste code 080111 - waste paint and varnish containing organic

solvents or other dangerous substances

200127 - paint, inks, adhesives and resins containing

dangerous substances

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

modified product

EWC waste code 080113 - sludges from paint or varnish containing organic

solvents or other dangerous substances

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

Dried residues

EWC waste code 080112 - waste lacquers and waste paint except those

falling under 080111

Disposal recommendations for packaging

EWC waste code 150110 - packaging containing residues of or contaminated

by dangerous substances



Trade name: Hesse PU Cellulose lacguer DE 45002-0016

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Completely emptied packagings can be given for recycling. Completely emptied packagings can be given for recycling.

Contributing exposure scenario controlling worker exposure

Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

PROC7 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.

Read attached instructions before use.

Product substance and product safety related measures

Mainly used in closed systems. 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 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



Trade name: Hesse PU Cellulose lacguer DE 45002-0016

Version: 38 / GB Revision: 06.08.2020
Replaces Version: 37 / GB Print date: 17.08.20

Workers (industrial)

SU SU3 PROC PROC7

Assessment method inhalation, long-term - local and systemic

Exposure assessment 27,54 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,1

Lead substance 2-methoxy-1-methylethyl acetate

Workers (industrial)

SU SU3 PROC PROC7

Assessment method dermal, long-term - local and systemic

Exposure assessment 2,14 mg/kg/d Exposure assessment (method) ECETOC TRA Risk characterisation ratio (RCR) 0,01

Lead substance 2-methoxy-1-methylethyl acetate

Workers (industrial)

SU SU3
PROC PROC10

Assessment method inhalation, long-term - local and systemic

Exposure assessment 55,08 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,2

Lead substance 2-methoxy-1-methylethyl acetate

Workers (industrial)

SU SU3
PROC PROC10

Assessment method dermal, long-term - local and systemic

Exposure assessment 27,43 mg/kg/d Exposure assessment (method) ECETOC TRA

Risk characterisation ratio (RCR) 0,18
Lead substance 2-methoxy-1-methylethyl acetate

Workers (industrial)

SU SU3
PROC PROC13

Assessment method inhalation, long-term - local and systemic

Exposure assessment 55,08 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,2

Lead substance 2-methoxy-1-methylethyl acetate

Workers (industrial)

SU SU3 PROC PROC13

Assessment method dermal, long-term - local and systemic

Exposure assessment 13,71 mg/kg/d Exposure assessment (method) ECETOC TRA Risk characterisation ratio (RCR) 0,09

Lead substance 2-methoxy-1-methylethyl acetate

Workers (industrial)

PROC PROC7



Trade name: Hesse PU Cellulose lacquer DE 45002-0016

Version: 38 / GB Revision: 06.08.2020
Replaces Version: 37 / GB Print date: 17.08.20

Assessment method inhalation, long-term - local and systemic

Indoor use

Exposure assessment 60,5 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,126
Lead substance isobutyl acetate

Workers (industrial)

PROC PROC10

Assessment method inhalation, long-term - local and systemic

Indoor use

Exposure assessment 242 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,504

Lead substance isobutyl acetate

Workers (industrial)

PROC PROC13

Assessment method inhalation, long-term - local and systemic

Indoor use

Exposure assessment 242 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,504

Lead substance isobutyl acetate

Workers (industrial)

PROC PROC7

Assessment method inhalation, long-term - local and systemic

Indoor use

Exposure assessment 60,5 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,126
Lead substance n-butyl acetate

Lead substance
Workers (industrial)

PROC PROC10

Assessment method inhalation, long-term - systemic

Indoor use

Exposure assessment 242 mg/m³
Exposure assessment (method) ECETOC TRA

Risk characterisation ratio (RCR) 0,504 Lead substance n-butyl acetate

Workers (industrial)

PROC PROC10

Assessment method inhalation, long-term - systemic

Outdoor use

Exposure assessment 242 mg/m³
Exposure assessment (method) ECETOC TRA

Risk characterisation ratio (RCR) 0,504 Lead substance n-butyl acetate

Workers (industrial)

PROC PROC13

Assessment method inhalation, long-term - systemic

Indoor use

Exposure assessment 242 mg/m³



Trade name: Hesse PU Cellulose lacquer DE 45002-0016

Version: 38 / GB Revision: 06.08.2020 Replaces Version: 37 / GB Print date: 17.08.20

ECETOC TRA Exposure assessment (method) Risk characterisation ratio (RCR) 0.504 Lead substance n-butyl acetate

Workers (industrial)

PROC PROC13

Assessment method inhalation, long-term - systemic

Outdoor use

Exposure assessment 242 mg/m³ Exposure assessment (method) **ECETOC TRA** Risk characterisation ratio (RCR) 0,504 Lead substance n-butyl acetate

Workers (industrial)

SU₃ **PROC** PROC7

Assessment method inhalation, long-term - systemic

Indoor use

Risk characterisation ratio (RCR) 0.75

Lead substance 4-methylpentan-2-one

Workers (industrial)

SU SU3 **PROC** PROC7

Assessment method dermal, long-term - systemic

> Indoor use 0,5

Risk characterisation ratio (RCR) Lead substance 4-methylpentan-2-one

Workers (industrial)

SU SU3 **PROC** PROC10

inhalation, long-term - systemic Assessment method

> Indoor use 0.5

Risk characterisation ratio (RCR) 4-methylpentan-2-one Lead substance

Workers (industrial)

SU SU3 PROC PROC10

Assessment method dermal, long-term - systemic 0.5

Risk characterisation ratio (RCR)

4-methylpentan-2-one Lead substance

Workers (industrial)

SU SU3 **PROC** PROC13

Assessment method inhalation, long-term - systemic

Risk characterisation ratio (RCR) 0,5

Lead substance 4-methylpentan-2-one

Workers (industrial)

SU SU3 **PROC** PROC13

Assessment method dermal, long-term - systemic

Risk characterisation ratio (RCR) 0,5

Lead substance 4-methylpentan-2-one



Trade name: Hesse PU Cellulose lacquer DE 45002-0016

Version: 38 / GB Revision: 06.08.2020

Replaces Version: 37 / GB Print date: 17.08.20

Workers (industrial)

SU SU3 PROC PROC7

Assessment method inhalation, long-term - systemic

Indoor use

Exposure assessment 200 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,05

Lead substance acetone

Workers (industrial)

SU SU3 PROC PROC7

Assessment method dermal, long-term - systemic

Indoor use

Exposure assessment 62 mg/kg/d Exposure assessment (method) ECETOC TRA Risk characterisation ratio (RCR) 0,01

Lead substance acetone

Workers (industrial)

SU SU3 PROC PROC10

Assessment method inhalation, long-term - systemic

Indoor use

Exposure assessment 200 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,5
Lead substance acetone

Workers (industrial)

SU SU3
PROC PROC10

Assessment method dermal, long-term - systemic

Indoor use

Exposure assessment 62 mg/kg/d
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,15

Lead substance acetone

Workers (industrial)

SU SU3 PROC PROC13

Assessment method inhalation, long-term - systemic

Indoor use

Exposure assessment 200 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,5
Lead substance acetone

Workers (industrial)

SU SU3 PROC PROC13

Assessment method dermal, long-term - systemic

Indoor use

Exposure assessment 61 mg/kg/d



Trade name: Hesse PU Cellulose lacquer DE 45002-0016

Version: 38 / GB Revision: 06.08.2020
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Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,074
Lead substance acetone

Workers (industrial)

SU SU3
PROC PROC7
Assessment method inhalative Indoor use

Exposure assessment 0,1 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,34
Lead substance xylene

Workers (industrial)

SU SU3
PROC PROC10
Assessment method inhalative
Indoor use

Exposure assessment 0,05 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,172

Lead substance xylene

Workers (industrial)

SU SU3
PROC PROC13
Assessment method inhalative
Indoor use

Exposure assessment 0,1 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,34
Lead substance xylene

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.

Annex to the extended Safety Data Sheet (eSDS)

Short title of the exposure scenario

ES003 - Professional uses: Non industrial spraying (inside)

Use of the substance/preparation

Surface treatment of wood and other materials

Use

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



Trade name: Hesse PU Cellulose lacguer DE 45002-0016

Version: 38 / GB Revision: 06.08.2020
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Contributing exposure scenario controlling environmental exposure

Use

ERC8a Wide dispersive indoor use of processing aids in open systems
ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix

Physical form liquid

Maximum amount used per time or activity

Emission days per site: <= 250

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.

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. Spray cabin waters are to be conducted after mechanical pretreatment into a wastewater treatment facility.

Exhaust air

Keep container closed. Avoid release to the environment.

Soil

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

Disposal recommendations for the product

EWC waste code 080111 - waste paint and varnish containing organic

solvents or other dangerous substances

200127 - paint, inks, adhesives and resins containing

dangerous substances

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

modified product

EWC waste code 080113 - sludges from paint or varnish containing organic

solvents or other dangerous substances

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

Dried residues

EWC waste code 080112 - waste lacquers and waste paint except those

falling under 080111

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. Completely emptied packagings can be given for recycling.

Contributing exposure scenario controlling worker exposure (professional)



Trade name: Hesse PU Cellulose lacguer DE 45002-0016

Version: 38 / GB Revision: 06.08.2020
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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 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.

Eve 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



Trade name: Hesse PU Cellulose lacquer DE 45002-0016

Version: 38 / GB Revision: 06.08.2020
Replaces Version: 37 / GB Print date: 17.08.20

Workers (professional)

SU SU22 PROC PROC13

Assessment method inhalation, long-term - local and systemic

Exposure assessment 55,08 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,2

Lead substance 2-methoxy-1-methylethyl acetate

Workers (professional)

SU SU22 PROC PROC13

Assessment method dermal, long-term - local and systemic

Exposure assessment 13,71 mg/kg/d Exposure assessment (method) ECETOC TRA Risk characterisation ratio (RCR) 0.09

Lead substance 2-methoxy-1-methylethyl acetate

Workers (professional)

SU SU22 PROC PROC10

Assessment method inhalation, long-term - local and systemic

Exposure assessment 137,71 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,5

Lead substance 2-methoxy-1-methylethyl acetate

Workers (professional)

SU SU22 PROC PROC10

Assessment method dermal, long-term - local and systemic Exposure assessment 27,43 mg/kg/d

Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,18

Lead substance 2-methoxy-1-methylethyl acetate

Workers (professional)

SU SU22 PROC PROC11

Assessment method inhalation, long-term - local and systemic

Indoor use

Exposure assessment 27,54 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,1

Lead substance 2-methoxy-1-methylethyl acetate

Workers (professional)

SU SU22 PROC PROC11

Assessment method dermal, long-term - local and systemic

Indoor use

Exposure assessment 2,14 mg/kg/d Exposure assessment (method) ECETOC TRA Risk characterisation ratio (RCR) 0,01

Lead substance 2-methoxy-1-methylethyl acetate



Trade name: Hesse PU Cellulose lacquer DE 45002-0016

Version: 38 / GB Revision: 06.08.2020 Replaces Version: 37 / GB Print date: 17.08.20

Workers (professional)

SU **SU22 PROC** PROC11

Assessment method inhalation, long-term - local and systemic

> Outdoor use 55,08 mg/m³ **ECETOC TRA**

Exposure assessment (method) Risk characterisation ratio (RCR) 0,2

Lead substance 2-methoxy-1-methylethyl acetate

Workers (professional)

Exposure assessment

SU **SU22 PROC** PROC11

dermal, long-term - local and systemic Assessment method

Outdoor use

Exposure assessment 107,14 mg/kg/d

Exposure assessment (method) **ECETOC TRA** Risk characterisation ratio (RCR) 0.7

Lead substance 2-methoxy-1-methylethyl acetate SU

SU21

Assessment method dermal, long-term - systemic

Indoor use

Exposure assessment 6 mg/kg/d ConsExpo v4.1 Exposure assessment (method)

Risk characterisation ratio (RCR) 0.11 Lead substance 2-methoxy-1-methylethyl acetate

Assessment method inhalation, long-term - systemic

Indoor use

Exposure assessment 6.83 mg/m³ Exposure assessment (method) ConsExpo v4.1 Risk characterisation ratio (RCR) 0.6

Lead substance 2-methoxy-1-methylethyl acetate

Workers (professional)

SU

SU22 PROC PROC11

Assessment method inhalation, long-term - local and systemic

Indoor use

Exposure assessment mg/m³ 242 Exposure assessment (method) **ECETOC TRA** Risk characterisation ratio (RCR) 0,504

Lead substance isobutyl acetate

Workers (professional)

SU **SU22 PROC** PROC11

Assessment method inhalation, long-term - local and systemic

Outdoor use

Exposure assessment mg/m³ 242 Exposure assessment (method) **ECETOC TRA** Risk characterisation ratio (RCR) 0,504

Lead substance isobutyl acetate

Workers (professional)



Trade name: Hesse PU Cellulose lacquer DE 45002-0016

Version: 38 / GB Revision: 06.08.2020

Replaces Version: 37 / GB Print date: 17.08.20

SU SU22
PROC PROC11
Assessment method Long-term inhalative

Exposure assessment 242 mg/m³
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

Risk characterisation ratio (RCR) 0,

Lead substance 4-methylpentan-2-one

Workers (professional)

SU SU22 PROC PROC10

Assessment method dermal, long-term - systemic

Risk characterisation ratio (RCR) 0,1

Lead substance 4-methylpentan-2-one

Workers (professional)

SU SU22 PROC PROC11

Assessment method inhalation, long-term - systemic

Risk characterisation ratio (RCR) 0,5

Lead substance 4-methylpentan-2-one

Workers (professional)

SU SU22 PROC PROC11

Assessment method dermal, long-term - systemic

Risk characterisation ratio (RCR) 0,5

Lead substance 4-methylpentan-2-one

Workers (professional)

SU SU22 PROC PROC13

Assessment method inhalation, long-term - systemic

Risk characterisation ratio (RCR) 0,75

Lead substance 4-methylpentan-2-one

Workers (professional)

SU SU22 PROC PROC13

Assessment method dermal, long-term - systemic

Risk characterisation ratio (RCR) 0,5

Lead substance 4-methylpentan-2-one

Workers (professional)

SU SU22 PROC PROC10

Assessment method inhalation, long-term - systemic

Exposure assessment 200 mg/m³ Exposure assessment (method) ECETOC TRA



Trade name: Hesse PU Cellulose lacquer DE 45002-0016

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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

acetone

Exposure assessment 200 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,4

Workers (professional)

Lead substance

SU SU22 PROC PROC11

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/m³
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)

Risk characterisation ratio (RCR)

Lead substance

ECETOC TRA

0,07

acetone

Workers (professional)

SU SU22
PROC PROC10
Assessment method inhalative Indoor use

Exposure assessment 0,05 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,172

Lead substance xylene



Trade name: Hesse PU Cellulose lacquer DE 45002-0016

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Workers (professional)

SU SU22
PROC PROC11
Assessment method inhalative Indoor use

Exposure assessment 0,1 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,34

Lead substance xylene

Workers (professional)

SU SU22
PROC PROC13
Assessment method inhalative Indoor use

Exposure assessment 0,05 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,172

Lead substance xylene

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.