

Trade name: Hesse Wiping stain PEX TD 4213-FT

Version: 17 / DK

Revision: 30.11.2022

Replaces Version: 16 / DK

Print date: 13.01.23

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

1.1. Product identifier

Hesse Wiping stain PEX TD 4213-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 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

	REACHSET 2003
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
PROC10	Roller application or brushing

1.3. Details of the supplier of the safety data sheet

Manufacturer

Hesse GmbH & Co. KG
Wareндorfer 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
Testphrase

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

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Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H335
STOT SE 3	H336
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

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

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H304	May be fatal if swallowed and enters airways.
H411	Toxic 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.
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	2-methylpropan-1-ol; Hydrocarbons, C9, aromatics; propan-2-ol; hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics
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Supplemental information

Further supplemental information

Young persons under 18 years may not work with this product.

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

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

SECTION 3: Composition/information on ingredients

Hazardous ingredients

Hydrocarbons, C9, aromatics

CAS No.	128601-23-0			
EINECS no.	918-668-5			
Registration no.	01-2119455851-35			
Concentration	>= 30	< 50	%	
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		

2-methylpropan-1-ol

CAS No.	78-83-1			
EINECS no.	201-148-0			
Registration no.	01-2119484609-23			
Concentration	>= 20	< 25	%	
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3	H226		
	STOT SE 3	H335		Respiratory tract
	Skin Irrit. 2	H315		
	Eye Dam. 1	H318		
	STOT SE 3	H336		Nervous system

propan-2-ol

CAS No.	67-63-0			
EINECS no.	200-661-7			
Registration no.	01-2119457558-25			
Concentration	>= 10	< 20	%	
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Eye Irrit. 2	H319		
	STOT SE 3	H336		Nervous system

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

CAS No.	92128-66-0			
EINECS no.	921-024-6			
Registration no.	01-2119475514-35			
Concentration	>= 3	< 10	%	
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Asp. Tox. 1	H304		
	Aquatic Chronic 2	H411		
	Skin Irrit. 2	H315		
	STOT SE 3	H336		Nervous system

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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

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

cyclohexane

CAS No. 110-82-7
 EINECS no. 203-806-2
 Registration no. 01-2119463273-41
 Concentration $\geq 0,3$ < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 2 H225
 Asp. Tox. 1 H304
 Skin Irrit. 2 H315
 STOT SE 3 H336
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410

n-Hexane

CAS No. 110-54-3
 EINECS no. 203-777-6
 Registration no. 01-2119474209-33
 Concentration $\geq 0,1$ < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 2 H225
 Repr. 2 H361f
 Asp. Tox. 1 H304
 STOT RE 2 H373
 Skin Irrit. 2 H315
 STOT SE 3 H336
 Aquatic Chronic 2 H411

Note

For explanation of abbreviations see section 16.

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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.

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.

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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.

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

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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

propan-2-ol

List	GV (DK)			
Value	490	mg/m ³	200	ppm(V)
Status:	11/2021			

2-methylpropan-1-ol

List	GV (DK)			
Value	150	mg/m ³	50	ppm(V)
Skin resorption / sensibilisation:	H; Status: 11/2021			

Other information

-

Derived No/Minimal Effect Levels (DNEL/DMEL)

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			

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Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	319	mg/kg/d

2-methylpropan-1-ol

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	310	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	55	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	Local effects	
Concentration	25	mg/kg/d

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

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	773	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	2035	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	699	mg/kg/d

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

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Mode of action	Systemic effects	
Concentration	608	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	699	mg/kg/d

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

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

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	

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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	
Concentration	773	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	699	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	2035	mg/m³

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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

Predicted No Effect Concentration (PNEC)

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

2-methylpropan-1-ol

Type of value	PNEC	
Type	Freshwater	
Concentration	0,4	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,04	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	11	mg/l
Type of value	PNEC	
Type	Fresh water sediment	

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Concentration	1,52	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,152	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,0699	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

8.2. Exposure controls

Exposure controls

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

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

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

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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	60 to 200 °C
Flammability	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	
Value	< 1000 hPa
Density and/or relative density	
Value	appr. 0,848 to 0,99 kg/l
Temperature	20 °C
Relative vapour density	
Remarks	not determined
Particle characteristics	
Remarks	not determined
9.2. Other information	
Odour threshold	
Remarks	not determined
Evaporation rate	
Remarks	not determined
Solubility in water	
Remarks	not determined
Efflux time	
Value	16 to 36 s

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Temperature 20 °C
Method DIN EN ISO 2431 - 4 mm

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Non-volatile content

Value 10,5 %

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 dermal toxicity

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

Acute inhalational toxicity

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

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)

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2-methylpropan-1-ol

Species	rabbit
Duration of exposure	8 d
Observation Period	24 h
evaluation	Skin irritation
Method	Value taken from the literature
Source	2 (reliable with restrictions)

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

Species	rabbit
Duration of exposure	4 h
Observation Period	7 d
evaluation	Irritating to skin.
Source	2 (reliable with restrictions)

n-Hexane

Species	rabbit
Duration of exposure	24 h
Observation Period	72 h
evaluation	Irritating to skin.

cyclohexane

evaluation	Irritating to skin.
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Serious eye damage/irritation

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

Serious eye damage/irritation (Components)

propan-2-ol

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

2-methylpropan-1-ol

Species	rabbit
Observation Period	14 d
evaluation	irritant - risk of serious damage to eyes
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)

n-Hexane

evaluation	Reproductive toxicity, Category 2
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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 respiratory irritation.
evaluation	May cause drowsiness or dizziness.

Repeated exposure

Remarks	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity (STOT) (Components)

propan-2-ol

Specific target organ toxicity - single exposure

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

2-methylpropan-1-ol

Specific target organ toxicity - single exposure

	Organs: Respiratory tract
Remarks	May cause respiratory irritation.

2-methylpropan-1-ol

Specific target organ toxicity - single exposure

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

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

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).

Hydrocarbons, C9, aromatics

Specific target organ toxicity - single exposure

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

Hydrocarbons, C9, aromatics

Specific target organ toxicity - single exposure

Remarks	Possible narcotic effects (drowsiness, dizziness).
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n-Hexane

Specific target organ toxicity - repeated exposure

Remarks	May cause damage to organs through prolonged or repeated exposure:
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n-Hexane

Specific target organ toxicity - single exposure

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

cyclohexane

Specific target organ toxicity - single exposure
evaluation
May cause drowsiness or dizziness.
Route of exposure inhalative

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

Specific target organ toxicity - single exposure
evaluation
May cause drowsiness or dizziness.
Organs: Nervous system

Remarks
Possible narcotic effects (drowsiness, dizziness).

Aspiration hazard

The classification criteria are met.
Harmful: may cause lung damage if swallowed.

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.

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, C6-C7, n-alkanes, isoalkanes, cyclics

Species	Daphnia magna (Water flea)		
EC50	3		mg/l
Duration of exposure	48	h	
Method	OECD 202, part 1, static		

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

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

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		

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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	

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

n-Hexane

Species	Daphnia magna (Water flea)	
EC50	2,1	mg/l
Duration of exposure	48	h

cyclohexane

Species	Daphnia magna (Water flea)	
EC50	3,78	mg/l
Duration of exposure	48	h

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	

12.2. Persistence and degradability

General information

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

Biodegradability (Components)

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

Value	98	%
Duration of test evaluation	28	d
	Readily biodegradable.	

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

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Value	53,4	%
Duration of test evaluation	28 d	
	Not readily biodegradable.	

Hydrocarbons, C9, aromatics
evaluation Readily biodegradable.

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

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.



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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.

SECTION 14: Transport information







Trade name: Hesse Wiping stain PEX TD 4213-FT

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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 (Hydrocarbons, C9, aromatics)	PAINT
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Special provision	640D		
Limited Quantity	5 I		
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	no  ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

VOC

VOC (EU) appr. 90 % 750 g/l

MAL-Code

MAL-Code 4-1
MAL 2.571,67 m³/l

Other information

All components are contained in the TSCA inventory or exempted.
All components are contained in the IECSC inventory.

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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.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
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

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
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 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

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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

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

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

Hazardous ingredients

propan-2-ol

CAS No.	67-63-0
EINECS no.	200-661-7
Registration no.	01-2119457558-25
Concentration	>= 10 < 25 %

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

CAS No.	92128-66-0
EINECS no.	921-024-6
Registration no.	01-2119475514-35
Concentration	>= 1 < 10 %

cyclohexane

CAS No.	110-82-7
EINECS no.	203-806-2
Registration no.	01-2119463273-41
Concentration	>= 0,5 < 1 %

2-methylpropan-1-ol

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CAS No.	78-83-1
EINECS no.	201-148-0
Registration no.	01-2119484609-23
Concentration	>= 10 < 25 %

Hydrocarbons, C9, aromatics

CAS No.	128601-23-0
EINECS no.	918-668-5
Registration no.	01-2119455851-35
Concentration	>= 25 < 50 %

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

EINECS no.	920-750-0
Registration no.	01-2119473851-33
Concentration	>= 1 < 10 %

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 %

Maximum amount used per time or activity

Emission days per site:	<= 250
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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.

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
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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

Hazardous ingredients

propan-2-ol

CAS No.	67-63-0				
EINECS no.	200-661-7				
Registration no.	01-2119457558-25				
Concentration	>= 10	<	25	%	

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

CAS No.	92128-66-0				
EINECS no.	921-024-6				
Registration no.	01-2119475514-35				
Concentration	>= 1	<	10	%	

cyclohexane

CAS No.	110-82-7				
EINECS no.	203-806-2				
Registration no.	01-2119463273-41				
Concentration	>= 0,5	<	1	%	

2-methylpropan-1-ol

CAS No.	78-83-1				
EINECS no.	201-148-0				
Registration no.	01-2119484609-23				
Concentration	>= 10	<	25	%	

Hydrocarbons, C9, aromatics

CAS No.	128601-23-0				
EINECS no.	918-668-5				
Registration no.	01-2119455851-35				
Concentration	>= 25	<	50	%	

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

EINECS no.	920-750-0				
Registration no.	01-2119473851-33				
Concentration	>= 1	<	10	%	

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

CAS No.	64742-48-9
EINECS no.	919-857-5
Registration no.	01-2119463258-33

Trade name: Hesse Wiping stain PEX TD 4213-FT

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Concentration \geq 1 $<$ 10 %

Maximum amount used per time or activity

Duration of exposure	\leq	8	h/d
Frequency of exposure	\leq	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 \geq 0,7
Breakthrough time \geq 30

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

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

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

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

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

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

Eye protection

Wear eye glasses with side protection according to EN 166.

Body protection

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

Exposure estimation and reference to its source

SU	SU22
PROC	PROC10
Assessment method	Long-term inhalative
Exposure assessment	185,25 mg/m ³
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,5976
Lead substance	2-methylpropan-1-ol

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SU	SU22
PROC	PROC11
Assessment method	Long-term inhalative
Exposure assessment	256,1 mg/m ³
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,8261
Lead substance	2-methylpropan-1-ol
SU	SU22
PROC	PROC13
Assessment method	Long-term inhalative
Exposure assessment	185,25 mg/m ³
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,5976
Lead substance	2-methylpropan-1-ol

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

ES001 - Industrial applications: industrial spraying (inside)

Use of the substance/preparation

Surface treatment of wood and other materials

Use

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

Hazardous ingredients

propan-2-ol

CAS No.	67-63-0
EINECS no.	200-661-7
Registration no.	01-2119457558-25
Concentration	>= 10 < 25 %

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

Trade name: Hesse Wiping stain PEX TD 4213-FT

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CAS No.	92128-66-0
EINECS no.	921-024-6
Registration no.	01-2119475514-35
Concentration	>= 1 < 10 %

cyclohexane

CAS No.	110-82-7
EINECS no.	203-806-2
Registration no.	01-2119463273-41
Concentration	>= 0,5 < 1 %

2-methylpropan-1-ol

CAS No.	78-83-1
EINECS no.	201-148-0
Registration no.	01-2119484609-23
Concentration	>= 10 < 25 %

Hydrocarbons, C9, aromatics

CAS No.	128601-23-0
EINECS no.	918-668-5
Registration no.	01-2119455851-35
Concentration	>= 25 < 50 %

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

EINECS no.	920-750-0
Registration no.	01-2119473851-33
Concentration	>= 1 < 10 %

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 %

Maximum amount used per time or activity

Emission days per site:	<= 300
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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.

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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.

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

Hazardous ingredients

propan-2-ol

CAS No.	67-63-0				
EINECS no.	200-661-7				
Registration no.	01-2119457558-25				
Concentration	>= 10	<	25	%	

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

CAS No.	92128-66-0				
EINECS no.	921-024-6				
Registration no.	01-2119475514-35				
Concentration	>= 1	<	10	%	

cyclohexane

CAS No.	110-82-7				
EINECS no.	203-806-2				
Registration no.	01-2119463273-41				
Concentration	>= 0,5	<	1	%	

2-methylpropan-1-ol

CAS No.	78-83-1				
EINECS no.	201-148-0				
Registration no.	01-2119484609-23				
Concentration	>= 10	<	25	%	

Hydrocarbons, C9, aromatics

CAS No.	128601-23-0				
EINECS no.	918-668-5				
Registration no.	01-2119455851-35				
Concentration	>= 25	<	50	%	

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

EINECS no.	920-750-0
Registration no.	01-2119473851-33

Print date: 13.01.23

Long-term

Trade name: Hesse Wiping stain PEX TD 4213-FT

Version: 17 / DK

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Exposure assessment	inhalative
Exposure assessment (method)	0 mg/m ³
Risk characterisation ratio (RCR)	ECETOC TRA
Lead substance	0
SU	2-methylpropan-1-ol
PROC	SU3
Assessment method	PROC10
	Long-term
Exposure assessment	inhalative
Exposure assessment (method)	15,44 mg/m ³
Risk characterisation ratio (RCR)	ECETOC TRA
Lead substance	0,0498
SU	2-methylpropan-1-ol
PROC	SU3
Assessment method	PROC13
	Long-term
Exposure assessment	inhalative
Exposure assessment (method)	15,44 mg/m ³
Risk characterisation ratio (RCR)	ECETOC TRA
Lead substance	0,0498
	2-methylpropan-1-ol

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

ES004 - Professional uses: roller application or brushing, dipping and pouring and other processing without aerosol formation (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
PROC10	Roller application or brushing
PROC13	Treatment of articles by dipping and pouring
PROCh01	Other processing without aerosol formation

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

Trade name: Hesse Wiping stain PEX TD 4213-FT

Version: 17 / DK

Revision: 30.11.2022

Replaces Version: 16 / DK

Print date: 13.01.23

Hazardous ingredients

propan-2-ol

CAS No.	67-63-0				
EINECS no.	200-661-7				
Registration no.	01-2119457558-25				
Concentration	>= 10	<	25		%

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

CAS No.	92128-66-0				
EINECS no.	921-024-6				
Registration no.	01-2119475514-35				
Concentration	>= 1	<	10		%

cyclohexane

CAS No.	110-82-7				
EINECS no.	203-806-2				
Registration no.	01-2119463273-41				
Concentration	>= 0,5	<	1		%

2-methylpropan-1-ol

CAS No.	78-83-1				
EINECS no.	201-148-0				
Registration no.	01-2119484609-23				
Concentration	>= 10	<	25		%

Hydrocarbons, C9, aromatics

CAS No.	128601-23-0				
EINECS no.	918-668-5				
Registration no.	01-2119455851-35				
Concentration	>= 25	<	50		%

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

EINECS no.	920-750-0				
Registration no.	01-2119473851-33				
Concentration	>= 1	<	10		%

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		%

Maximum amount used per time or activity

Emission days per site:	<= 250
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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.

Exhaust air

Keep container closed. Avoid release to the environment.

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Soil

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

Disposal recommendations for the product

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

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

modified product

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

Dried residues

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

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:CES008

Use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
PROC10 Roller application or brushing
PROC13 Treatment of articles by dipping and pouring
PROCh01 Other processing without aerosol formation

Physical form

liquid

Hazardous ingredients

propan-2-ol

CAS No.	67-63-0				
EINECS no.	200-661-7				
Registration no.	01-2119457558-25				
Concentration	>= 10	<	25	%	

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

CAS No.	92128-66-0				
EINECS no.	921-024-6				
Registration no.	01-2119475514-35				
Concentration	>= 1	<	10	%	

cyclohexane

CAS No.	110-82-7
EINECS no.	203-806-2
Registration no.	01-2119463273-41

Trade name: Hesse Wiping stain PEX TD 4213-FT

Version: 17 / DK

Revision: 30.11.2022

Replaces Version: 16 / DK

Print date: 13.01.23

Concentration \geq 0,5 $<$ 1 %

2-methylpropan-1-ol

CAS No. 78-83-1

EINECS no. 201-148-0

Registration no. 01-2119484609-23

Concentration \geq 10 $<$ 25 %

Hydrocarbons, C9, aromatics

CAS No. 128601-23-0

EINECS no. 918-668-5

Registration no. 01-2119455851-35

Concentration \geq 25 $<$ 50 %

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

EINECS no. 920-750-0

Registration no. 01-2119473851-33

Concentration \geq 1 $<$ 10 %

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 \geq 1 $<$ 10 %

Maximum amount used per time or activity

Duration of exposure \leq 8 h/d

Frequency of exposure \leq 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 \geq 0,7

Breakthrough time \geq 30

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

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

The instructions and information provided by the glove manufacturer on use, storage, maintenance and

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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

SU	SU22
PROC	PROC10
Assessment method	Long-term inhalative
Exposure assessment	185,25 mg/m ³
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,5976
Lead substance	2-methylpropan-1-ol
SU	SU22
PROC	PROC11
Assessment method	Long-term inhalative
Exposure assessment	256,1 mg/m ³
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,8261
Lead substance	2-methylpropan-1-ol
SU	SU22
PROC	PROC13
Assessment method	Long-term inhalative
Exposure assessment	185,25 mg/m ³
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,5976
Lead substance	2-methylpropan-1-ol

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Guidance for Downstream Users

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