

Trade name: Hesse Care oil OB 52812-88007

Version: 7 / DK

Revision: 02.01.2019

Replaces Version: 6 / DK

Print date: 21.02.19

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

### 1.1. Product identifier

Hesse Care oil OB 52812-88007

### 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

### 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. 3 H226

Aquatic Chronic 4 H413

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

Warning

##### Hazard statements

H226 Flammable liquid and vapour.

H413 May cause long lasting harmful effects to aquatic life.

##### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P243 Take precautionary measures against static discharge.

P273 Avoid release to the environment.

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P280                      Wear protective gloves/protective clothing/eye protection/face protection.  
 P303+P361+P353      IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin  
                                  with water/shower.  
 P403+P233              Store in a well-ventilated place. Keep container tightly closed.

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

EUH066                      Repeated exposure may cause skin dryness or cracking.

**Further supplemental information \*\*\***

Cleaning cloth soaked with the product can self ignite during packing up, therefore dry the cloth on a line or through spreading and dispose of after dry up.

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

**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 (Regulation (EC) No. 1272/2008) \*\*\*****alkanes, C11-14-iso-**

CAS No.	90622-58-5				
Concentration	>=	25	<	30	%

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

Asp. Tox. 1	H304
Aquatic Chronic 4	H413
	EUH066

**Naphtha (petroleum), hydrotreated heavy**

CAS No.	64742-48-9				
EINECS no.	265-150-3				
Registration no.	01-2119463258-33				
Concentration	>=	10	<	20	%

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

Flam. Liq. 3	H226
Asp. Tox. 1	H304
STOT SE 3	H336
	EUH066

**Naphtha (petroleum), hydrotreated heavy**

CAS No.	64742-48-9				
EINECS no.	265-150-3				
Registration no.	01-2119486659-16				
Concentration	>=	1	<	10	%

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

Asp. Tox. 1	H304
	EUH066

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**reaction mass of: bis(2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-1,10-decanedioate; 1,8-bis[(2,2,6,6-tetramethyl-4-((2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-decan-1,10-diyl)piperidin-1-yl)oxy]octane**

EINECS no. 406-750-9  
 Registration no. 01-2119480191-44  
 Concentration  $\geq$  1 < 10 %

Classification (Regulation (EC) No. 1272/2008)  
 Aquatic Chronic 4 H413

**reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates**

CAS No. 127519-17-9  
 EINECS no. 407-000-6  
 Concentration  $\geq$  1 < 3 %

Classification (Regulation (EC) No. 1272/2008)  
 Aquatic Chronic 2 H411

**2-ethylhexanoic acid zirconium salt**

CAS No. 22464-99-9  
 EINECS no. 245-018-1  
 Registration no. 01-2119979088-21  
 Concentration  $\geq$  0,1 < 1 %

Classification (Regulation (EC) No. 1272/2008)  
 Repr. 2 H361d

For explanation of abbreviations see section 16.

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

## 4. First aid measures

### 4.1. Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical attention. If unconscious place in recovery position and seek medical advice. First aider: Pay attention to self-protection! Remove affected person from danger area, lay him down.

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Keep warm, calm and covered up. In all cases of doubt, or when symptoms persist, seek medical attention.

#### After skin contact

Wash off immediately with soap and water. Do NOT use solvents or thinners. Consult a doctor if skin irritation persists.

#### After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. Take medical treatment.

#### After ingestion

Do not induce vomiting. Take medical treatment.

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#### **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, CO<sub>2</sub>, powders, water spray/mist

###### **Non suitable extinguishing media**

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

##### **5.2. Special hazards arising from the substance or mixture**

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

##### **5.3. Advice for firefighters**

###### **Special protective equipment for fire-fighting**

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

###### **Other information**

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

#### **6. Accidental release measures**

##### **6.1. Personal precautions, protective equipment and emergency procedures**

Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Do not inhale vapours. Do not inhale gases. Do not inhale mist.

##### **6.2. Environmental precautions**

Do not allow to enter drains or waterways. Do not allow to enter soil, waterways or waste water canal. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

##### **6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Do NOT use solvents or thinners. Send in suitable containers for recovery or disposal.

##### **6.4. Reference to other sections**

Refer to protective measures listed in Sections 7 and 8.

#### **7. Handling and storage**

##### **7.1. Precautions for safe handling**

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### 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. Do not process in the same cabin together with highly flammable material (e.g. CN lacquer) => fire hazard through self ignition! Cleaning cloth soaked with the product can self ignite during packing up, therefore dry the cloth on a line or through spreading and dispose of after dry up.

## 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.

### Further information on storage conditions

Keep away from heat. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations.

## 7.3. Specific end use(s)

See exposure scenario, if available.

## 8. Exposure controls/personal protection \*\*\*

### 8.1. Control parameters

#### Other information

-

#### Derived No/Minimal Effect Levels (DNEL/DMEL) \*\*\*

##### Naphtha (petroleum), hydrotreated heavy

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	300	mg/kg/d

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

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Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1500	mg/m <sup>3</sup>
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	300	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	900	mg/m <sup>3</sup>
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	300	mg/kg/d
<b>Naphtha (petroleum), hydrotreated heavy</b>		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	208	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	871	mg/m <sup>3</sup>
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	125	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	

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Concentration	125	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	900	mg/m <sup>3</sup>

## 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

Respiratory protection not applicable; 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

Appropriate Material Nitrile rubber

Material thickness  $\geq$  0,4 mm

Breakthrough time  $\geq$  30 min

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

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

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

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

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

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

### Eye protection

Wear eye glasses with side protection according to EN 166.

### Body protection

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

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Form</b>	liquid
<b>Colour</b>	white
<b>Odour</b>	characteristic
<b>Odour threshold</b>	
Remarks	not determined

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**pH value**

Remarks not determined

**Melting point**

Remarks not determined

**Freezing point**

Remarks not determined

**Initial boiling point and boiling range**

Value 159 to 217 °C

**Flash point**

Value 36 to 55 °C

**Evaporation rate**

Remarks not determined

**Flammability (solid, gas)**

not determined

**Upper/lower flammability or explosive limits**

Remarks not determined

**Vapour density**

Remarks not determined

**Density**Value appr. 0,935 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 51 to 63 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**



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**Non-volatile content**

Value	54,8	%
Method	calculated value	

**Other information**

This information is not available.

**10. Stability and reactivity****10.1. Reactivity**

Stable under recommended storage and handling conditions (see section 7).

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

To avoid thermal decomposition, do not overheat.

**10.4. Conditions to avoid**

Isolate from sources of heat, sparks and open flame.

**Decomposition temperature**

Remarks	not determined
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**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<sub>x</sub>), 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 oral toxicity (Components)**

reaction mass of: bis(2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-1,10-decanedioate; 1,8-bis[(2,2,6,6-tetramethyl-4-((2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-decan-1,10-diyl)piperidin-1-yl)oxy]octane

Species	rat	
LD50	> 2000	mg/kg
Method	Limited Test	

**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)**

reaction mass of: bis(2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-1,10-decanedioate; 1,8-bis[(2,2,6,6-tetramethyl-4-((2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-decan-1,10-diyl)piperidin-1-yl)oxy]octane

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Species	rabbit	
LD50	> 2000	mg/kg
Method	Limited Test	

**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**

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

**Serious eye damage/irritation**

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

**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.

**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)**

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

**Aspiration hazard**

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

**Other information**

No toxicological data are available.

**12. Ecological information****12.1. Toxicity****General information**

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

**Fish toxicity (Components)****Naphtha (petroleum), hydrotreated heavy**

Species	Pimephales promelas (fathead minnow)	
LC50	2200	mg/l
Duration of exposure	96	h

**Naphtha (petroleum), hydrotreated heavy**

Species	Pimephales promelas (fathead minnow)	
NOEC	2,6	mg/l
Duration of exposure	14	d

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**Naphtha (petroleum), hydrotreated heavy**

Species	Oncorhynchus mykiss (rainbow trout)		
LC50	16		mg/l
Duration of exposure	96	h	

**Daphnia toxicity (Components)****Naphtha (petroleum), hydrotreated heavy**

Species	Chaetogammarus marinus		
EC50	2,6		mg/l
Duration of exposure	96	h	

**reaction mass of: bis(2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-1,10-decanedioate; 1,8-bis[(2,2,6,6-tetramethyl-4-((2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-decan-1,10-dioyl)piperidin-1-yl)oxy]octane**

Species	Daphnia magna (Water flea)		
EC50	71		mg/l
Duration of exposure	24	h	

**alkanes, C11-14-iso-**

Species	Daphnia magna (Water flea)		
EC50	> 1000		mg/l
Duration of exposure	48	h	

**Naphtha (petroleum), hydrotreated heavy**

Species	Daphnia magna (Water flea)		
EC50	4,5		mg/l
Duration of exposure	48	h	

**Naphtha (petroleum), hydrotreated heavy**

Species	Daphnia magna (Water flea)		
NOEC	2,6		mg/l
Duration of exposure	21	d	

**Algae toxicity (Components)****Naphtha (petroleum), hydrotreated heavy**

Species	Pseudokirchneriella subcapitata (green algae)		
EC50	3,1		mg/l
Duration of exposure	72	h	

**Bacteria toxicity (Components)****linseed oil**

Species	Pseudomonas putida		
EC10	67000		mg/l

**12.2. Persistence and degradability****General information**

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

**Biodegradability (Components)****reaction mass of: bis(2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-1,10-decanedioate; 1,8-bis[(2,2,6,6-tetramethyl-4-((2,2,6,6-tetramethyl-1-octyloxypiperidin-4-yl)-decan-1,10-dioyl)piperidin-1-yl)oxy]octane**

Value	19		%
Duration of test evaluation	28	d	
	Not readily biodegradable.		

**alkanes, C11-14-iso-**

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evaluation Not readily biodegradable.

**Naphtha (petroleum), hydrotreated heavy**

Value	77,05	%
Duration of test evaluation	28 d	

evaluation Readily biodegradable.

**Ready degradability (Components)**

**linseed oil**

Value	appr. 40	%
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**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.

**12.6. Other adverse effects**

**General information**

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

**General information / ecology**

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

**13. Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations for the product**

EWC waste code 080111 - waste paint and varnish containing organic solvents or other dangerous substances

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

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

**modified product**

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

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

**Dried residues**

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

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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.

**14. Transport information****Land transport ADR/RID****14.1. UN number**

UN 1263

**14.2. UN proper shipping name**

PAINT

**14.3. Transport hazard class(es)**

Class 3

Label 3

**14.4. Packing group**

Packing group III

Limited Quantity 5 I

Transport category 3

Tunnel restriction code D/E

**Marine transport IMDG/GGVSee****14.1. UN number**

UN 1263

**14.2. UN proper shipping name**

PAINT

**14.3. Transport hazard class(es)**

Class 3

**14.4. Packing group**

Packing group III

**Air transport ICAO/IATA****14.1. UN number**

UN 1263

**14.2. UN proper shipping name**

PAINT

**14.3. Transport hazard class(es)**

Class 3

**14.4. Packing group**

Packing group III

**15. Regulatory information \*\*\*****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC \*\*\***

VOC (EU) 45,2 % 423 g/l

**MAL-Code**

MAL-Code 2-1

MAL 611,21 m³/l

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### 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.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

#### CLP categories listed in Chapter 3

Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

#### Abbreviations

ADR - Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 IMDG - International Maritime Code for Dangerous Goods  
 IATA - International Air Transport Association  
 IATA-DGR - Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS - European Inventory of Existing Commercial Chemical Substances  
 CAS - Chemical Abstracts Service (division of the American Chemical Society)  
 GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
 LOAEL - Lowest Observed Adverse Effect Level  
 LOEL - Lowest Observed Effect Level  
 NOAEL - No Observed Adverse Effect Level  
 NOEC - No Observed Effect Concentration  
 NOEL - No Observed Effect Level  
 OECD - Organisation for Economic Cooperation and Development  
 VOC - Volatile Organic Compounds

Changes since the last version are highlighted in the margin (\*\*\*). This version replaces all previous versions.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material

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