



# JOHN KELLYS (LONDON) LTD

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● Essential Oils ● Aromatic Chemicals ● Oleoresins ● Fragrances ● Flavors ● Functional ingredients

## SAFETY DATA SHEET

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

#### 1.1 Product identifier

**Article description :** MANUKA OIL  
**Article No.:** 100-1015  
**CAS No. :** 223749-44-8  
**TSCA-CAS:** -

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Fragrance & Flavor

##### **Uses advised against**

Do not use for private purposes (household).

#### 1.3 Details of the supplier of the safety data sheet

**Supplier :** John Kellys (London) LTD  
**Address :** Unit 18 Blackbird Industrial Estate, Blackbird Road, Leicester, Leicestershire, LE4 0ET, UK.  
**Telephone :** (+44) 0203 930 0833  
**E-mail :** trading@johnkellys.com

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### **Classification according to Regulation (EC) No 1272/2008 [CLP]**

Skin Sens. 1 ; H317 - Skin sensitization : Category 1 ; May cause an allergic skin reaction.

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### **Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms





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Environment (GHS09) · Exclamation mark (GHS07)

## Signal word

Warning

### Hazard components for labelling

B-CARYOPHYLLENE, (E)- ; CAS No. : 87-44-5

A-PINENE ; CAS No. : 80-56-8

B-PINENE ; CAS No. : 127-91-3

1,8-CINEOL ; CAS No. : 470-82-6

LIMONENE ; CAS No. : 5989-27-5

LINALOOL ; CAS No. : 78-70-6

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TERPINEN-4-OL ; CAS No. : 562-74-3

**Hazard statements**

H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

**Additional information**

P302+P352 - IF ON SKIN: Wash with plenty of water.

**2.3 Other hazards**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria. This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

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**SECTION 3: Composition/information on ingredients**

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**3.1 Substances**

**Substance name :** MANUKA OIL

**CAS No. :** 223749-44-8

**Hazardous ingredients**

B-CARYOPHYLLENE, (E)- ; CAS No. : 87-44-5

Weight fraction :  $\geq 1 - < 10 \%$   
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304 Skin Sens. 1 ; H317

A-HUMULENE ; CAS No. : 6753-98-6

Weight fraction :  $\geq 1 - < 10 \%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

A-PINENE ; CAS No. : 80-56-8

Weight fraction :  $\geq 1 - < 2,5 \%$   
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Aquatic Chronic 1 ; H410

B-CARYOPHYLLENE OXIDE ; CAS No. : 1139-30-6

Weight fraction :  $\geq 0,5 - < 1 \%$   
Classification 1272/2008 [CLP] : Aquatic Chronic 2 ; H411

B-PINENE ; EC No. : 242-060-2; CAS No. : 127-91-3

Weight fraction :  $\geq 0,25 - < 0,5 \%$   
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410  
(M Acute=1)

G-TERPINENE ; EC No. : 202-794-6; CAS No. : 99-85-4

Weight fraction :  $< 0,5 \%$   
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Repr. 2 ; H361 Aquatic Chronic 2 ; H411

P-CYMENE ; EC No. : 202-796-7; CAS No. : 99-87-6

Weight fraction :  $< 0,5 \%$   
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 3 ; H331 Asp. Tox. 1 ; H304 Repr. 2 ; H361 Aquatic Chronic 2 ; H411  
(ATE - inhalative (vapour) : 3 mg/L)

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1,8-CINEOL ; CAS No. : 470-82-6  
Weight fraction :  $\geq 0,1 - < 0,5 \%$   
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Skin Sens. 1B ; H317

LINALOOL ; EC No. : 201-134-4; CAS No. : 78-70-6  
Weight fraction :  $\geq 0,1 - < 0,5 \%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 Eye Irrit. 2 ; H319

NEROLIDOL ; EC No. : 230-597-5; CAS No. : 7212-44-4  
Weight fraction :  $< 0,25 \%$   
Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

LIMONENE ; EC No. : 227-813-5; CAS No. : 5989-27-5  
Weight fraction :  $\geq 0,1 - < 0,25 \%$   
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 3 ; H412

TERPINEN-4-OL ; CAS No. : 562-74-3  
Weight fraction :  $\geq 0,1 - < 0,5 \%$   
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Remove contaminated, saturated clothing immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable: sand, foam, carbon dioxide (CO<sub>2</sub>) and dry extinguishing powder. For safety reasons unsuitable: water.

#### Unsuitable extinguishing media

Full water jet

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

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide

### 5.3 Advice for firefighters

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

### 5.4 Additional information

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Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

## **SECTION 6: Accidental release measures**

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

Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation. Remove persons to safety. See protective measures under point 7 and 8.

### **6.2 Environmental precautions**

Do not allow to enter into surface water or drains. 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**

Clear spills immediately. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

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

None

## **SECTION 7: Handling and storage**

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

Ensure adequate ventilation of the storage area. Always close containers tightly after the removal of product. All work processes must always be designed so that the following is excluded: Skin contact, Eye contact

#### **Protective measures**

##### **Measures to prevent fire**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Have fire-extinguishers in readiness before opening containers.

#### **Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Used working clothes should not be worn outside the work area.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Keep/Store only in original container. Keep container tightly closed in a cool, well-ventilated place. Floors should be impervious, resistant to liquids and easy to clean. Store packaging and ignitable materials separately.

#### **Hints on joint storage**

**Storage class (TRGS 510) :** 10

### **7.3 Specific end use(s)**

None

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Occupational exposure limit values**

LIMONENE ; CAS No. : 5989-27-5

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 5 ppm / 28 mg/m<sup>3</sup>

Peak limitation : 4 (II)

Remark : H, Sh, Y

Version : 02.04.2014

### **8.2 Exposure controls**

Use personal protection equipment. Remove contaminated, saturated clothing. Avoid contact with skin, eyes and clothes. When using do not eat, drink, smoke, sniff.

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## Personal protection equipment

### Eye/face protection



#### Suitable eye protection

Visor made of plastic EN 166

### Skin protection

#### Hand protection



**Suitable material** : Check leak tightness/impermeability prior to use. NBR (Nitrile rubber) EN ISO 374. 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.

**Thickness of the glove material** : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

**Recommended glove articles** : Dermatril P 743, Camatril® 730, Butoject® 898

### Respiratory protection

Usually no personal respiratory protection necessary. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (DGUV 112-190). Respiratory protection necessary at: insufficient ventilation.

#### Suitable respiratory protection apparatus

Full-/half-/quarter-face masks (EN 136/140), Filter type: 3M™ gas and vapour filter for reusable respirators of the 6000 series, protection level ABE1

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Colour** : Yellow to brown yellow

#### Safety characteristics

|                                                  |              |                                 |
|--------------------------------------------------|--------------|---------------------------------|
| <b>Physical state</b> :                          |              | Liquid                          |
| <b>Melting point/freezing point</b> :            | ( 1013 hPa ) | No data available               |
| <b>Initial boiling point and boiling range</b> : | ( 1013 hPa ) | 200 °C                          |
| <b>Decomposition temperature</b> :               | ( 1013 hPa ) | No data available               |
| <b>Flash point</b> :                             |              | 98 °C                           |
| <b>Auto-ignition temperature</b> :               |              | No data available               |
| <b>Lower explosion limit</b> :                   |              | No data available               |
| <b>Upper explosion limit</b> :                   |              | No data available               |
| <b>Vapour pressure</b> :                         | ( 50 °C )    | No data available               |
| <b>Density</b> :                                 | ( 20 °C )    | 0,938 - 0,985 g/cm <sup>3</sup> |
| <b>Solvent separation test</b> :                 | ( 20 °C )    | No data available               |
| <b>Water solubility</b> :                        | ( 20 °C )    | practically insoluble           |
| <b>pH</b> :                                      |              | not applicable                  |
| <b>Viscosity</b> :                               | ( 20 °C )    | No data available               |
| <b>Relative vapour density</b> :                 | ( 20 °C )    | No data available               |

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

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#### 10.1 Reactivity

No known hazardous reactions.

#### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4 Conditions to avoid

None if handled and used properly.

#### 10.5 Incompatible materials

Acids and bases; strong oxidizing agents.

#### 10.6 Hazardous decomposition products

None if handled and used properly.

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### SECTION 11: Toxicological information

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

This product has not been subjected to toxicological testing. According to the data which is available for the constituents this corresponds to the criteria for the classification of health hazards.

##### Acute toxicity

###### Acute oral toxicity

|                  |                                      |
|------------------|--------------------------------------|
| Parameter :      | ATE ( A-PINENE ; CAS No. : 80-56-8 ) |
| Exposure route : | Oral                                 |
| Effective dose : | 500 mg/kg                            |

###### Acute inhalation toxicity

|                  |                                      |
|------------------|--------------------------------------|
| Parameter :      | ATE ( P-CYMENE ; CAS No. : 99-87-6 ) |
| Exposure route : | Inhalation (vapour)                  |
| Effective dose : | 3 mg/l                               |

#### 11.2 Information on other hazards

No information available.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

No information available.

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

#### 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

No information available.

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### SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled. In Switzerland, commercial hazardous waste shall be delivered to a disposal company. Do not allow uncontrolled discharge of product into the environment.

#### Directive 2008/98/EC (Waste Framework Directive)

##### After intended use

##### Waste codes/waste designations according to EWC/AVV

The assignment of waste codes has to be carried out specifically by industry and process acc. AVV. The waste codes are not product- but origin-related. Therefore the manufacturer cannot provide a waste code for the products used in different industries. The code is to be understood as a recommendation for the user. 16 05 08: discarded organic chemicals consisting of or containing dangerous substances

## SECTION 14: Transport information

### 14.1 UN number

UN 3082

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( A-PINENE · B-PINENE )

#### Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( A-PINENE · B-PINENE · NEROLIDOL )

#### Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( A-PINENE · B-PINENE )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

**Class(es) :** 9  
**Classification code :** M6  
**Hazard identification number (Kemler No.) :** 90  
**Special Provisions :** LQ 5 I · E 1 · ADR : - (SP 375 <= 5 l/kg)  
**Hazard label(s) :** 9 / N

#### Sea transport (IMDG)

**Class(es) :** 9  
**EmS-No. :** F-A / S-F  
**Special Provisions :** LQ 5 I · E 1 · IMDG : - (SP 2.10.2.7 <= 5 l/kg)  
**Hazard label(s) :** 9 / N

#### Air transport (ICAO-TI / IATA-DGR)

**Class(es) :** 9  
**Special Provisions :** E 1 · IATA : - (SP A197 <= 5 l/kg)  
**Hazard label(s) :** 9 / N

### 14.4 Packing group

III

### 14.5 Environmental hazards

**Land transport (ADR/RID) :** Yes

**Sea transport (IMDG) :** Yes (P)

**Air transport (ICAO-TI / IATA-DGR) :** Yes

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

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## **mixture**

### **EU legislation**

#### **Authorisations and/or restrictions on use**

##### **Restrictions on use**

Use restriction according to REACH annex XVII, no. : 3

##### **Other regulations (EU)**

##### **Regulation (EU) 2024/590 on substances that deplete the ozone layer**

not relevant

### **National regulations**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

#### **Störfallverordnung (12. BImSchV)**

Annex 1: ingredient(s) not named. Observe the quantity threshold (s) according to the hazard categories.

#### **Technische Anleitung zur Reinhaltung der Luft (TA-Luft)**

Annex 4: ingredient(s) not named.

#### **Water hazard class**

Classification according to AwSV - Class : 3 (Highly hazardous to water)

## **15.2 Chemical Safety Assessment**

No information available.

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## **SECTION 16: Other information**

### **16.1 Indication of changes**

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 02. Label elements - Additional information · 03. Hazardous ingredients · 08. Occupational exposure limit values · 14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR) · 15. Water hazard class

### **16.2 Abbreviations and acronyms**

|           |                                                                                           |
|-----------|-------------------------------------------------------------------------------------------|
| ADR       | Accord européen relatif au transport international des marchandises Dangereuses par Route |
| ATE       | Acute Toxicity Estimate                                                                   |
| AVV       | Abfallverzeichnis-Verordnung                                                              |
| AwSV      | Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen                         |
| BGR       | Berufsgenossenschaftliche Regel                                                           |
| CAS       | Chemical Abstracts Service                                                                |
| CLP       | Classification, Labelling and Packaging of Substances and Mixtures                        |
| DGUV      | Deutsche Gesetzliche Unfallversicherung                                                   |
| DIN       | Norm des Deutschen Instituts für Normung                                                  |
| DGR       | Dangerous Goods Regulations                                                               |
| EAK       | Europäischer Abfallkatalog                                                                |
| EC        | effective concentration                                                                   |
| ECHA      | European Chemicals Agency                                                                 |
| EG / EC   | Europäische Gemeinschaft / European Community                                             |
| EINECS    | European Union                                                                            |
| EN        | Europäische Norm                                                                          |
| EU        | European Inventory of Existing Commercial Chemical Substances                             |
| GefStoffV | Gefahrstoff-Verordnung                                                                    |
| GHS       | Globally Harmonized System of Classification and Labelling of Chemicals                   |

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|         |                                                                                         |
|---------|-----------------------------------------------------------------------------------------|
| IATA    | International Air Transport Association                                                 |
| ICAO-TI | International Civil Aviation Organization - Technical Instructions                      |
| IFRA    | International Fragrance Association                                                     |
| IMDG    | International Maritime Code for Dangerous Goods                                         |
| ISO     | International Organization for Standardization                                          |
| KBwS    | Kommission zur Bewertung wassergefährdender Stoffe                                      |
| KZGW    | Kurzzeitgrenzwert                                                                       |
| LC      | lethal concentration                                                                    |
| LD      | lethal dose                                                                             |
| LOAEL   | lowest observed adverse effect level                                                    |
| NOAEL   | no observed adverse effect level                                                        |
| OECD    | Organization for Economic Cooperation and Development                                   |
| PBT     | persistent, bioaccumulative and toxic                                                   |
| RCP     | reciprocal calculation procedure                                                        |
| REACH   | Registration, Evaluation, Authorisation and Restriction of Chemicals                    |
| RID     | Règlement concernant le transport International ferroviaire de marchandises Dangereuses |
| TRGS    | Technische Regeln für Gefahrstoffe                                                      |
| TSCA    | Toxic Substances Control Act                                                            |
| VOC     | Volatile Organic Compounds                                                              |
| vPvB    | very persistent and very bioaccumulative                                                |
| WGK     | Wassergefährdungsklasse                                                                 |

### 16.3 Key literature references and sources for data

ECHA, IFRA and supplier information

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

|      |                                                       |
|------|-------------------------------------------------------|
| H226 | Flammable liquid and vapour.                          |
| H302 | Harmful if swallowed.                                 |
| H304 | May be fatal if swallowed and enters airways.         |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H319 | Causes serious eye irritation.                        |
| H331 | Toxic if inhaled.                                     |
| H332 | Harmful if inhaled.                                   |
| H335 | May cause respiratory irritation.                     |
| H336 | May cause drowsiness or dizziness.                    |
| H361 | Suspected of damaging fertility or the unborn child.  |
| 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.      |
| H412 | Harmful to aquatic life with long lasting effects.    |

### 16.6 Training advice

None

### 16.7 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of

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mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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