

# Mulberry CC-16022

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment  
Regulation (EU) 2015/830 Issue date: 7/17/2020

# CandleCraft

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

### 1.1. Product identifier

Product form : Mixture  
Product name : Mulberry  
UFI : 6P8M-82GV-K00A-6RXA  
Product code : CC-16022  
Type of product : Perfumes, Fragrances  
Product group : Finished Good

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial  
For professional use only  
Use of the substance/mixture : Perfumes, Fragrances  
Function or use category : Odour agents

#### 1.2.2. Uses advised against

No additional information available

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

Candle Craft  
Weiherwiese 10  
65510 Idstein - Germany  
T 49-6126-9363 -0  
info@candlecraft.de - www.candlecraft.de

### 1.4. Emergency telephone number

Emergency number : 1-800-255-3924; +01-813-248-0585; China:+400-120-0751; Mexico:+01-800-099-0731;  
Brazil: +0-800-591-6042; India: +000-800-100-4086

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Acute toxicity (oral) Category 4 H302  
Skin corrosion/irritation Category 2 H315  
Skin sensitization, Category 1 H317  
Aspiration hazard Category 1 H304  
Hazardous to the aquatic environment - Chronic Hazard Category 2 H411  
Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS08

GHS09

Signal word (CLP)

: Danger

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|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazardous ingredients          | : Anisyl acetate; Aldehyde C-16; Allyl cyclohexylpropionate; Orange Oil; Benzyl benzoate; Orange oil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Hazard statements (CLP)        | : H302 - Harmful if swallowed.<br>H304 - May be fatal if swallowed and enters airways.<br>H315 - Causes skin irritation.<br>H317 - May cause an allergic skin reaction.<br>H411 - Toxic to aquatic life with long lasting effects.                                                                                                                                                                                                                                                                                                                                                                                    |
| Precautionary statements (CLP) | : P264 - Wash hands, forearms and face thoroughly after handling.<br>P270 - Do not eat, drink or smoke when using this product.<br>P272 - Contaminated work clothing should not be allowed out of the workplace.<br>P273 - Avoid release to the environment.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.<br>P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.<br>P302+P352 - IF ON SKIN: Wash with plenty of water.<br>P331 - Do NOT induce vomiting.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. |

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                           | Product identifier                                                                                     | %            | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                       |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Benzyl benzoate                                | (CAS-No.) 120-51-4<br>(EC-No.) 204-402-9<br>(EC Index-No.) 607-085-00-9<br>(REACH-no) 01-2119976371-33 | 40.2 – 60.35 | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411                                                                                         |
| Orange oil                                     | (CAS-No.) 8008-57-9<br>(EC-No.) 232-433-8<br>(REACH-no) 01-2119493353-35                               | 5.3 – 10.6   | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411                                                       |
| Methyl ester of rosin (partially hydrogenated) | (CAS-No.) 8050-15-5<br>(EC-No.) 232-476-2                                                              | 2.525 – 5.05 | Aquatic Chronic 3, H412                                                                                                                                               |
| Aldehyde C-14                                  | (CAS-No.) 104-67-6<br>(EC-No.) 203-225-4<br>(REACH-no) 01-2119959333-34                                | 2.375 – 4.75 | Aquatic Chronic 3, H412                                                                                                                                               |
| Benzene carboxaldehyde                         | (CAS-No.) 100-52-7<br>(EC-No.) 202-860-4<br>(EC Index-No.) 605-012-00-5<br>(REACH-no) 01-2119455540-44 | 2.375 – 4.75 | Acute Tox. 4 (Oral), H302                                                                                                                                             |
| Allyl cyclohexylpropionate                     | (CAS-No.) 2705-87-5<br>(EC-No.) 220-292-5                                                              | 1.85 – 3.7   | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

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|                         |                                                                         |              |                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Orange Oil              | (CAS-No.) 8028-48-6<br>(EC-No.) 232-433-8                               | 1.325 – 2.65 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411                                 |
| Aldehyde C-16           | (CAS-No.) 77-83-8<br>(EC-No.) 201-061-8<br>(REACH-no) 01-2119967770-28  | 0.8 – 1.6    | Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411                                                                                                  |
| Anisyl acetate          | (CAS-No.) 104-21-2<br>(EC-No.) 203-185-8                                | 0.6 – 1.2    | Skin Sens. 1, H317                                                                                                                              |
| Ethyl vanillin crystals | (CAS-No.) 121-32-4<br>(EC-No.) 204-464-7<br>(REACH-no) 01-211958961-24  | 0.525 – 1.05 | Eye Irrit. 2, H319                                                                                                                              |
| Allyl caproate          | (CAS-No.) 123-68-2<br>(EC-No.) 204-642-4<br>(REACH-no) 01-2119983573-26 | 0.275 – 0.55 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>Aquatic Acute 1, H400<br>Aquatic Chronic 3, H412 |

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Call a physician immediately.                                                                                                    |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                                                                   |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                                                                                           |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting. Call a physician immediately.                                                               |

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

|                                     |                                                    |
|-------------------------------------|----------------------------------------------------|
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after ingestion    | : Risk of lung edema.                              |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                              |                                                  |
|------------------------------|--------------------------------------------------|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--------------------------------------------------|

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

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--------------------------------------------------|--------------------------------|

### 5.3. Advice for firefighters

|                                |                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

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### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.  
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Benzene carboxaldehyde (100-52-7)       |                        |
|-----------------------------------------|------------------------|
| Bulgaria - Occupational Exposure Limits |                        |
| OEL TWA (mg/m <sup>3</sup> )            | 5 mg/m <sup>3</sup>    |
| Finland - Occupational Exposure Limits  |                        |
| HTP-arvo (8h) (mg/m <sup>3</sup> )      | 4.4 mg/m <sup>3</sup>  |
| HTP-arvo (8h) (ppm)                     | 1 ppm                  |
| OEL Ceiling (mg/m <sup>3</sup> )        | 17.4 mg/m <sup>3</sup> |
| OEL Ceiling (ppm)                       | 4 ppm                  |
| Hungary - Occupational Exposure Limits  |                        |
| Exposure Limit Value                    | 5 mg/m <sup>3</sup>    |
| CK-érték                                | 10 mg/m <sup>3</sup>   |

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| Latvia - Occupational Exposure Limits    |                      |
|------------------------------------------|----------------------|
| OEL TWA (mg/m <sup>3</sup> )             | 5 mg/m <sup>3</sup>  |
| Lithuania - Occupational Exposure Limits |                      |
| IPRV (mg/m <sup>3</sup> )                | 5 mg/m <sup>3</sup>  |
| Poland - Occupational Exposure Limits    |                      |
| NDS (mg/m <sup>3</sup> )                 | 10 mg/m <sup>3</sup> |
| NDSCh (mg/m <sup>3</sup> )               | 40 mg/m <sup>3</sup> |

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):



#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                                             |                                 |
|---------------------------------------------|---------------------------------|
| Physical state                              | : Liquid                        |
| Color                                       | : light yellow. amber.          |
| Odor                                        | : characteristic.               |
| Odor threshold                              | : No data available             |
| pH                                          | : No data available             |
| Relative evaporation rate (butyl acetate=1) | : No data available             |
| Melting point                               | : Not applicable                |
| Freezing point                              | : No data available             |
| Boiling point                               | : No data available             |
| Flash point                                 | : 67 °C (closed cup) ASTM D7094 |
| Auto-ignition temperature                   | : No data available             |
| Decomposition temperature                   | : No data available             |
| Flammability (solid, gas)                   | : Not applicable                |
| Vapor pressure                              | : No data available             |
| Relative vapor density at 20 °C             | : No data available             |
| Relative density                            | : 1.03                          |

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|                                                 |                     |
|-------------------------------------------------|---------------------|
| Solubility                                      | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic                            | : No data available |
| Viscosity, dynamic                              | : No data available |
| Explosive properties                            | : No data available |
| Oxidizing properties                            | : No data available |
| Explosion limits                                | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                         |
|-----------------------------|-------------------------|
| Acute toxicity (oral)       | : Harmful if swallowed. |
| Acute toxicity (dermal)     | : Not classified        |
| Acute toxicity (inhalation) | : Not classified        |

| Mulberry CC-16022 |                           |
|-------------------|---------------------------|
| ATE CLP (oral)    | 734.208 mg/kg body weight |

| Allyl caproate (123-68-2)              |                       |
|----------------------------------------|-----------------------|
| LD50 oral                              | 300 mg/kg body weight |
| LD50 dermal                            | 300 mg/kg body weight |
| LC50 inhalation rat (Vapors - mg/l/4h) | 3 mg/l/4h             |

| Aldehyde C-14 (104-67-6) |             |
|--------------------------|-------------|
| LD50 oral rat            | 18500 mg/kg |

| Benzene carboxaldehyde (100-52-7) |            |
|-----------------------------------|------------|
| LD50 oral rat                     | 1292 mg/kg |

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|                    |              |
|--------------------|--------------|
| LD50 dermal rabbit | > 1250 mg/kg |
|--------------------|--------------|

### Ethyl vanillin crystals (121-32-4)

|               |                        |
|---------------|------------------------|
| LD50 oral rat | 1590 mg/kg             |
| LD50 oral     | 3000 mg/kg body weight |

### Aldehyde C-16 (77-83-8)

|               |            |
|---------------|------------|
| LD50 oral rat | 5470 mg/kg |
|---------------|------------|

### Methyl ester of rosin (partially hydrogenated) (8050-15-5)

|               |              |
|---------------|--------------|
| LD50 oral rat | > 2000 mg/kg |
|---------------|--------------|

### Allyl cyclohexylpropionate (2705-87-5)

|                                        |                        |
|----------------------------------------|------------------------|
| LD50 oral rat                          | 585 mg/kg              |
| LD50 oral                              | 480 mg/kg body weight  |
| LD50 dermal                            | 1600 mg/kg body weight |
| LC50 inhalation rat (Vapors - mg/l/4h) | 11 mg/l/4h             |

### Benzyl benzoate (120-51-4)

|                    |                        |
|--------------------|------------------------|
| LD50 oral rat      | 500 mg/kg              |
| LD50 oral          | 1500 mg/kg body weight |
| LD50 dermal rabbit | 4000 mg/kg             |
| LD50 dermal        | 4000 mg/kg body weight |

### Orange oil (8008-57-9)

|                    |              |
|--------------------|--------------|
| LD50 oral rat      | 4400 mg/kg   |
| LD50 dermal rabbit | > 5000 mg/kg |

|                                   |                                                 |
|-----------------------------------|-------------------------------------------------|
| Skin corrosion/irritation         | : Causes skin irritation.                       |
| Serious eye damage/irritation     | : Not classified                                |
| Respiratory or skin sensitization | : May cause an allergic skin reaction.          |
| Germ cell mutagenicity            | : Not classified                                |
| Carcinogenicity                   | : Not classified                                |
| Reproductive toxicity             | : Not classified                                |
| STOT-single exposure              | : Not classified                                |
| STOT-repeated exposure            | : Not classified                                |
| Aspiration hazard                 | : May be fatal if swallowed and enters airways. |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                                                    |
|-----------------------------------------------------------|----------------------------------------------------|
| Ecology - general                                         | : Toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                   |
| Hazardous to the aquatic environment, long-term (chronic) | : Toxic to aquatic life with long lasting effects. |

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| <b>Allyl caproate (123-68-2)</b> |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| LC50 fish 1                      | 0.117 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static]) |

| <b>Aldehyde C-14 (104-67-6)</b> |                |
|---------------------------------|----------------|
| LC50 fish 1                     | 569 mg/l 96 h  |
| EC50 Daphnia 1                  | 5.85 mg/l 48 h |
| EC50 other aquatic organisms 1  | 5.94 mg/l 72 h |

| <b>Benzene carboxaldehyde (100-52-7)</b> |                                                                                      |
|------------------------------------------|--------------------------------------------------------------------------------------|
| LC50 fish 1                              | 10.6 – 11.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |
| LC50 fish 2                              | 12.69 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])             |

| <b>Ethyl vanillin crystals (121-32-4)</b> |                                                                                      |
|-------------------------------------------|--------------------------------------------------------------------------------------|
| LC50 fish 1                               | 81.4 – 94.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |

| <b>Aldehyde C-16 (77-83-8)</b> |                                                                             |
|--------------------------------|-----------------------------------------------------------------------------|
| LC50 fish 1                    | 4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static]) |

| <b>Allyl cyclohexylpropionate (2705-87-5)</b> |                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------|
| LC50 fish 1                                   | 0.13 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |

| <b>Benzyl benzoate (120-51-4)</b> |                                                                      |
|-----------------------------------|----------------------------------------------------------------------|
| LC50 fish 1                       | 2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static]) |
| NOEC (chronic)                    | 0.168 mg/l                                                           |

### 12.2. Persistence and degradability

| <b>Benzyl benzoate (120-51-4)</b> |                                                         |
|-----------------------------------|---------------------------------------------------------|
| Persistence and degradability     | May cause long-term adverse effects in the environment. |

### 12.3. Bioaccumulative potential

| <b>Benzene carboxaldehyde (100-52-7)</b>        |                                  |
|-------------------------------------------------|----------------------------------|
| BCF fish 1                                      | (no significant bioaccumulation) |
| Partition coefficient n-octanol/water (Log Pow) | 1.48 (at 20 °C)                  |

| <b>Benzyl benzoate (120-51-4)</b>               |                  |
|-------------------------------------------------|------------------|
| Partition coefficient n-octanol/water (Log Pow) | 4                |
| Bioaccumulative potential                       | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available



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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : UN 3082  
UN-No. (IMDG) : UN 3082  
UN-No. (IATA) : UN 3082  
UN-No. (ADN) : Not regulated  
UN-No. (RID) : Not regulated

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.  
Proper Shipping Name (ADN) : Not regulated  
Proper Shipping Name (RID) : Not regulated  
Transport document description (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE), 9, III, (-)  
Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE), 9, III, MARINE POLLUTANT  
Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE), 9, III

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

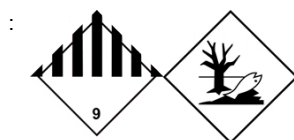
##### ADR

Transport hazard class(es) (ADR) : 9  
Hazard labels (ADR) : 9



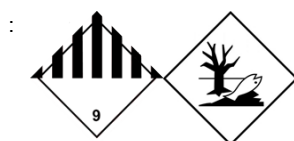
##### IMDG

Transport hazard class(es) (IMDG) : 9  
Hazard labels (IMDG) : 9



##### IATA

Transport hazard class(es) (IATA) : 9  
Hazard labels (IATA) : 9



##### ADN

Transport hazard class(es) (ADN) : Not regulated

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### RID

Transport hazard class(es) (RID) : Not regulated

### 14.4. Packing group

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (ADN) : Not regulated  
Packing group (RID) : Not regulated

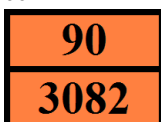
### 14.5. Environmental hazards

Dangerous for the environment : Yes  
Marine pollutant : Yes  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : M6  
Special provision (ADR) : 274, 335, 375, 601  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, LP01, R001  
Special packing provisions (ADR) : PP1  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T4  
Portable tank and bulk container special provisions (ADR) : TP1, TP29  
Tank code (ADR) : LGBV  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13  
Hazard identification number (Kemler No.) : 90  
Orange plates :



Tunnel restriction code (ADR) : -  
EAC : •3Z

#### Transport by sea

Special provision (IMDG) : 274, 335, 969  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : LP01, P001  
Packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP29  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-F  
Stowage category (IMDG) : A

#### Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y964  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA packing instructions (IATA) : 964  
PCA max net quantity (IATA) : 450L  
CAO packing instructions (IATA) : 964  
CAO max net quantity (IATA) : 450L  
Special provision (IATA) : A97, A158, A197

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ERG code (IATA) : 9L

### Inland waterway transport

Not regulated

### Rail transport

Not regulated

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

| The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006: |                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference code                                                                                               | Applicable                                                                                                                                                                                   |
| 3(a)                                                                                                         | Orange Oil ; Orange oil                                                                                                                                                                      |
| 3(b)                                                                                                         | Mulberry CC-16022 ; Allyl caproate ; Anisyl acetate ; Benzene carboxaldehyde ; Aldehyde C-16 ; Allyl cyclohexylpropionate ; Orange Oil ; Benzyl benzoate ; Orange oil                        |
| 3(c)                                                                                                         | Mulberry CC-16022 ; Allyl caproate ; Aldehyde C-14 ; Aldehyde C-16 ; Methyl ester of rosin (partially hydrogenated) ; Allyl cyclohexylpropionate ; Orange Oil ; Benzyl benzoate ; Orange oil |
| 40.                                                                                                          | Orange Oil ; Orange oil                                                                                                                                                                      |

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance(s) subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

##### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : Resin acids and Rosin acids, hydrogenated, methyl esters, Orange Oil, Orange oil are listed

SZW-lijst van mutagene stoffen : Resin acids and Rosin acids, hydrogenated, methyl esters, Orange Oil, Orange oil are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

##### Denmark

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 16: Other information

| Abbreviations and acronyms: |                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways   |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road               |
| ATE                         | Acute Toxicity Estimate                                                                           |
| BLV                         | Biological limit value                                                                            |
| CAS-No.                     | Chemical Abstract Service number                                                                  |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| DMEL                        | Derived Minimal Effect level                                                                      |
| DNEL                        | Derived-No Effect Level                                                                           |
| EC50                        | Median effective concentration                                                                    |
| EC-No.                      | European Community number                                                                         |
| EN                          | European Standard                                                                                 |
| IATA                        | International Air Transport Association                                                           |
| IMDG                        | International Maritime Dangerous Goods                                                            |
| LC50                        | Median lethal concentration                                                                       |
| LD50                        | Median lethal dose                                                                                |
| LOAEL                       | Lowest Observed Adverse Effect Level                                                              |
| NOAEC                       | No-Observed Adverse Effect Concentration                                                          |
| NOAEL                       | No-Observed Adverse Effect Level                                                                  |
| NOEC                        | No-Observed Effect Concentration                                                                  |
| OEL                         | Occupational Exposure Limit                                                                       |
| PBT                         | Persistent Bioaccumulative Toxic                                                                  |
| PNEC                        | Predicted No-Effect Concentration                                                                 |
| REACH                       | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| SDS                         | Safety Data Sheet                                                                                 |
| vPvB                        | Very Persistent and Very Bioaccumulative                                                          |
| WGK                         | Water Hazard Class                                                                                |

| Full text of H- and EUH-phrases: |                                                                  |
|----------------------------------|------------------------------------------------------------------|
| Acute Tox. 3 (Dermal)            | Acute toxicity (dermal), Category 3                              |
| Acute Tox. 3 (Inhalation)        | Acute toxicity (inhalation) Category 3                           |
| Acute Tox. 3 (Oral)              | Acute toxicity (oral) Category 3                                 |
| Acute Tox. 4 (Dermal)            | Acute toxicity (dermal), Category 4                              |
| Acute Tox. 4 (Inhalation)        | Acute toxicity (inhalation) Category 4                           |
| Acute Tox. 4 (Oral)              | Acute toxicity (oral) Category 4                                 |
| Aquatic Acute 1                  | Hazardous to the aquatic environment - Acute Hazard Category 1   |
| Aquatic Chronic 1                | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Aquatic Chronic 2                | Hazardous to the aquatic environment - Chronic Hazard Category 2 |

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|                   |                                                                  |
|-------------------|------------------------------------------------------------------|
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Asp. Tox. 1       | Aspiration hazard Category 1                                     |
| Eye Irrit. 2      | Serious eye damage/eye irritation, Category 2                    |
| Flam. Liq. 3      | Flammable liquids Category 3                                     |
| Skin Irrit. 2     | Skin corrosion/irritation Category 2                             |
| Skin Sens. 1      | Skin sensitization, Category 1                                   |
| Skin Sens. 1B     | Skin sensitization, Category 1B                                  |
| H226              | Flammable liquid and vapor.                                      |
| H301              | Toxic if swallowed.                                              |
| H302              | Harmful if swallowed.                                            |
| H304              | May be fatal if swallowed and enters airways.                    |
| H311              | Toxic in contact with skin.                                      |
| H312              | Harmful in contact with skin.                                    |
| H315              | Causes skin irritation.                                          |
| H317              | May cause an allergic skin reaction.                             |
| H319              | Causes serious eye irritation.                                   |
| H331              | Toxic if inhaled.                                                |
| H332              | Harmful if inhaled.                                              |
| 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.               |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.