

# Safety data sheet

In compliance with Regulation (EC) No 2020/878

| DARK OBSCURE 354523-A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                     |
| 1.1 Product Identifier<br>Product Identifier/ No:<br>UFI:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DARK OBSCURE 354523-A<br>ED18-P1K3-700N-GPGW                                                                                        |
| 1.2 Relevant identified uses of the mixture and uses advised against:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Perfuming agent for finished consumer products.<br><b>Not for personal use in this form or concentration.</b>                       |
| 1.3 Details of the supplier of the safety data sheet:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LUZI AG<br>Riedwiesenstrasse 5<br>8305 Dietlikon, Switzerland<br>Phone: +41 44 835 76 76<br>E-Mail: regulatory.switzerland@luzi.com |
| 1.4 Emergency telephone number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | +41 76 315 31 83<br>Emergency consultation (DE/EN) during office hours<br>Monday to Friday<br>08:00 - 17:00 (UTC+1)                 |
| 2. HAZARD IDENTIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                     |
| 2.1 Classification of the substance or mixture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                     |
| 2.1.1 Classification according to Regulation (EC) No 1272/2008:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |
| <div style="text-align: center;"> <br/>           GHS07 Irritation, sensitisation<br/>           Skin Sens. 1 H317 May cause an allergic skin reaction.         </div> <div style="text-align: center; margin-top: 20px;"> <br/>           GHS09 Hazards to the aquatic environment<br/>           Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.         </div> |                                                                                                                                     |
| 2.2 Label elements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                     |

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### 2.2.1 Hazard pictograms:



### 2.2.2 Signal word

**Warning**

### 2.2.3 Hazard statements:

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

### 2.2.4 Precautionary statements

#### General:

P101 If medical advice is needed, have product container or label at hand.  
P103 Read label before use.

#### Prevention:

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / protective clothing / eye protection / face protection.

#### Response in cases of accidental spillage or exposure:

P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
P321 Specific treatment  
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.  
P363 Wash contaminated clothing before reuse.  
P391 Collect spillage.

#### Storage:

-

#### Disposal:

P501 Dispose of contents/container in accordance with official regulations.

#### Hazardous component(s) for labeling:

##### CAS No:

54464-57-2

106-02-5

111879-80-2

##### Chemical name:

1-(2,3,8,8-Tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl)  
ethanone

16-Oxacyclohexadecan-1-one

(12E)-1-Oxacyclohexadec-12-en-2-one

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33704-61-9 6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone

### EUH208: Contains an ingredient that may produce an allergic reaction:

| CAS No:     | Chemical name:                                                                                                                                     |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 54464-57-2  | 1-(2,3,8,8-Tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl)ethanone                                                                               |
| 106-02-5    | 16-Oxacyclohexadecan-1-one                                                                                                                         |
| 33704-61-9  | 6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone                                                                                                   |
| 115-95-7    | 3,7-Dimethylocta-1,6-dien-3-yl acetate                                                                                                             |
| 5989-27-5   | 1-Methyl-4-prop-1-en-2-ylcyclohexene                                                                                                               |
| 78-70-6     | 3,7-Dimethyl-1,6-octadien-3-ol                                                                                                                     |
| 144020-22-4 | Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatriene                                                            |
| 107-75-5    | 3,7-Dimethyl-7-hydroxyoctanal                                                                                                                      |
| 63314-79-4  | 3-Methyl-5-cyclopentadecen-1-one                                                                                                                   |
| 10339-55-6  | (6E)-3,7-Dimethylnona-1,6-dien-3-ol                                                                                                                |
| 120-57-0    | 1,3-Benzodioxole-5-carbaldehyde                                                                                                                    |
| 91-64-5     | 1-Benzopyran-2-one                                                                                                                                 |
| 32388-55-9  | [3R-(3 $\alpha$ ,3 $\alpha$ $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one |
| 127-51-5    | (E)-3-Methyl-4-(2,6,6-trimethyl-1-cyclohex-2-enyl)but-3-en-2-one                                                                                   |
| 1205-17-0   | 3-(1,3-Benzodioxol-5-yl)-2-methylpropanal                                                                                                          |
| 13828-37-0  | [cis-4-(Propan-2-yl)cyclohexyl]methanol                                                                                                            |
| 19870-74-7  | [3R-(3 $\alpha$ ,3 $\alpha$ $\beta$ ,6 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene            |
| 58567-11-6  | Ethoxymethoxy cyclododecane                                                                                                                        |
| 118-58-1    | Benzyl 2-hydroxybenzoate                                                                                                                           |
| 106-22-9    | 3,7-Dimethyl-6-octenol                                                                                                                             |
| 87-44-5     | (1R-(1R*,4E,9S))-4,11,11-Trimethyl-8-methylenebicyclo(7.2.0)undec-4-ene                                                                            |
| 127-91-3    | 7,7-Dimethyl-4-methylidenebicyclo[3.1.1]heptane                                                                                                    |
| 5462-06-6   | 3-(4-Methoxyphenyl)-2-methylpropanal                                                                                                               |
| 104-55-2    | 3-Phenyl-2-propenal                                                                                                                                |

### 2.3 Other Hazards

This mixture does not contain any PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative) substances according to Directive (EC) No 1907/2006.

This mixture does not contain endocrine disrupting substances according to Regulation (EU) 2017/2100.

Handling may cause static charge which may ignite the mixture

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| 3. COMPOSITION / INFORMATION ON INGREDIENTS |                                             |                                                                       |         |                                                                                                                                                                                      |
|---------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3.1 Substances</b>                       |                                             | Not applicable                                                        |         |                                                                                                                                                                                      |
| <b>3.2 Mixtures</b>                         |                                             |                                                                       |         |                                                                                                                                                                                      |
| <b>Chemical characterisation</b>            |                                             | Mixture of substances listed below with non-hazardous additions       |         |                                                                                                                                                                                      |
| <b>CAS-/EINECS-No</b>                       |                                             | Not applicable                                                        |         |                                                                                                                                                                                      |
| Quantity                                    | CAS No<br>EINECS No<br>REACH No             | Name                                                                  | Comment | Classification (GHS)                                                                                                                                                                 |
| 50-70%                                      | 25265-71-8<br>246-770-3<br>01-2119456811-38 | 3-(3-Hydroxypropoxy)propan-1-ol                                       | -       | -                                                                                                                                                                                    |
| 5-10%                                       | 54464-57-2<br>259-174-3<br>01-2119489989-04 | 1-(2,3,8,8-Tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl) ethanone |         | <br>Skin Irrit. 2; Skin Sens. 1B;<br>Aquatic Chronic 1; H315;<br>H317; H410                       |
| 1-5%                                        | 105-95-3<br>203-347-8<br>01-2119976314-33   | 1,4-Dioxacycloheptadecane-5,17-dione                                  |         | Aquatic Chronic 3; H412                                                                                                                                                              |
| 1-5%                                        | 106-02-5<br>203-354-6<br>01-2119987323-31   | 16-Oxacyclohexadecan-1-one                                            |         | <br>Skin Sens. 1B; Aquatic<br>Chronic 2; H317; H411                                             |
| 1-5%                                        | 111879-80-2<br>-<br>01-0000016883-62        | (12E)-1-Oxacyclohexadec-12-en-2-one                                   |         | <br>Aquatic Acute 1; Aquatic<br>Chronic 1; H400; H410                                           |
| 1-5%                                        | 121-33-5<br>204-465-2<br>01-2119516040-60   | 4-Hydroxy-3-methoxybenzaldehyde                                       |         | <br>Eye Irrit. 2; H319                                                                          |
| < 1%                                        | 33704-61-9<br>251-649-3<br>01-2119977131-40 | 6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone                      |         | <br>Skin Irrit. 2; Eye Irrit. 2; Skin<br>Sens. 1B; Aquatic Chronic 2;<br>H315; H319; H317; H411 |
| < 1%                                        | 115-95-7<br>204-116-4<br>01-2119454789-19   | 3,7-Dimethylocta-1,6-dien-3-yl acetate                                |         | <br>Skin Irrit. 2; Skin Sens. 1B;<br>H315; H317                                                 |

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|      |                                              |                                                                                                          |                                                                                       |
|------|----------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| < 1% | 5989-27-5<br>227-813-5                       | 1-Methyl-4-prop-1-en-2-ylcyclohexene                                                                     |    |
| < 1% | 78-70-6<br>201-134-4<br>01-2119474016-42     | 3,7-Dimethyl-1,6-octadien-3-ol                                                                           |    |
| < 1% | 144020-22-4<br>482-330-9<br>01-2119430466-41 | Acetic acid, anhydride, reaction products with 1,5,10-trimethyl-1,5,9-cyclododecatiene                   |    |
| < 1% | 107-75-5<br>203-518-7<br>01-2119973482-31    | 3,7-Dimethyl-7-hydroxyoctanal                                                                            |    |
| < 1% | 63314-79-4<br>429-900-5<br>01-0000017618-62  | 3-Methyl-5-cyclopentadecen-1-one                                                                         |  |
| < 1% | 91-64-5<br>202-086-7<br>01-2119949300-45     | 1-Benzopyran-2-one                                                                                       |  |
| < 1% | 10339-55-6<br>233-732-6<br>01-2119969272-32  | (6E)-3,7-Dimethylnona-1,6-dien-3-ol                                                                      |  |
| < 1% | 120-57-0<br>204-409-7<br>01-2119983608-21    | 1,3-Benzodioxole-5-carbaldehyde                                                                          |  |
| < 1% | 32388-55-9<br>251-020-3<br>01-2119969651-28  | [3R-(3α,3αβ,7β,8α)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one |  |
| < 1% | 127-51-5<br>204-846-3                        | (E)-3-Methyl-4-(2,6,6-trimethyl-1-cyclohex-2-enyl)but-3-en-2-one                                         |  |

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|      |                                             |                                                                                       |                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                 |
|------|---------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| < 1% | 1222-05-5<br>214-946-9<br>01-2119488227-29  | 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran                        |                                                                                                                                                                                                                                                                      | Aquatic Chronic 1; Aquatic Acute 1; H410; H400                                                                                  |
| < 1% | 1205-17-0<br>214-881-6<br>01-2120740119-58  | 3-(1,3-Benzodioxol-5-yl)-2-methylpropanal                                             |                                                                                                | Skin Sens. 1B; Repr. 2; Aquatic Chronic 2; H317; H361; H411                                                                     |
| < 1% | 13828-37-0<br>237-539-8<br>01-2119983532-32 | [cis-4-(Propan-2-yl)cyclohexyl]methanol                                               |                                                                                                                                                                                                                                                                      | Skin Irrit. 2; Skin Sens. 1B; H315; H317                                                                                        |
| < 1% | 19870-74-7<br>243-384-7<br>01-2120228335-61 | [3R-(3α,3aβ,6β,7β,8α)]-Octahydro-6-methoxy-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene |                                                                                                                                                                                   | Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1; H317; H400; H410                                                             |
| < 1% | 58567-11-6<br>261-332-1<br>01-2119971571-34 | Ethoxymethoxy cyclododecane                                                           |                                                                                                                                                                                   | Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 2; H315; H317; H411                                                               |
| < 1% | 118-58-1<br>204-262-9<br>01-2119969442-31   | Benzyl 2-hydroxybenzoate                                                              |                                                                                                                                                                                                                                                                    | Skin Sens. 1B; Aquatic Chronic 3; H317; H412                                                                                    |
| < 1% | 106-22-9<br>203-375-0<br>01-2119453995-23   | 3,7-Dimethyl-6-octenol                                                                |                                                                                                                                                                                                                                                                    | Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2; H315; H317; H319                                                                    |
| < 1% | 87-44-5<br>201-746-1<br>-                   | (1R-(1R*,4E,9S))-4,11,11-Trimethyl-8-methylenebicyclo(7.2.0)undec-4-ene               |                                                                                                                                                                               | Asp. Tox. 1; Skin Sens. 1B; H304; H317                                                                                          |
| < 1% | 127-91-3<br>204-872-5<br>-                  | 7,7-Dimethyl-4-methylidenebicyclo[3.1.1]heptane                                       |     | Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1B; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; H226; H315; H317; H304; H400; H410 |
| < 1% | 5462-06-6<br>226-749-5<br>01-2120629103-67  | 3-(4-Methoxyphenyl)-2-methylpropanal                                                  |                                                                                                                                                                                                                                                                    | Skin Sens. 1B; H317                                                                                                             |

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|-----------------------|-------------------------------------------|----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| < 1%                  | 469-61-4<br>207-418-4<br>-                | (1S,2R,5S,7S)-2,6,6,8-tetramethyltricyclo[5.3.1.0 <sup>1,5</sup> ]undec-8-ene    | M = 10 |  <p>Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; Skin Irrit. 2; H304; H400; H410; H315</p>                                                 |
| < 1%                  | 104-55-2<br>203-213-9<br>01-2119935242-45 | 3-Phenyl-2-propenal                                                              |        |  <p>Acute Tox. 4 derm.; Skin Irrit. 2; Skin Sens. 1A; Eye Irrit. 2; Aquatic Acute 1; Aquatic Chronic 2; H312; H315; H317; H319; H400; H411</p> |
| < 1%                  | 546-28-1<br>208-898-8<br>-                | (1S,2R,5S)-8-Methylene-2,6,6-trimethyl tricyclo(5.3.1.0 <sup>1,5</sup> )undecane | M = 10 |  <p>Aquatic Chronic 1; Aquatic Acute 1; H410; H400</p>                                                                                         |

| 4. FIRST AID MEASURES                                                      |                                                                                                                                                                                         |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.1 Description of first aid measures                                      |                                                                                                                                                                                         |
| <b>General advice:</b>                                                     | Seek medical advice and show this safety data sheet.                                                                                                                                    |
| <b>Inhalation:</b>                                                         | Remove affected person to fresh air and if unconscious place in recovery position. Seek medical attention for safety reasons.                                                           |
| <b>Skin Contact:</b>                                                       | Wash with plenty of soap and water. Remove contaminated clothing and clean before reuse.                                                                                                |
| <b>Eye Contact:</b>                                                        | Immediately remove contact lenses and rinse eyes thoroughly under running water with eyelids open (15 minutes). Seek medical attention if signs of tissue damage or irritation persist. |
| <b>Ingestion:</b>                                                          | Keep airways clear, do not administer milk or alcoholic beverages. Never administer anything orally to an unconscious person. If symptoms persist, consult a physician.                 |
| 4.2 Most important symptoms and effects, both acute and delayed            |                                                                                                                                                                                         |
| No further relevant information available.                                 |                                                                                                                                                                                         |
| 4.3 Indication of immediate medical attention and special treatment needed |                                                                                                                                                                                         |
| No further relevant information available.                                 |                                                                                                                                                                                         |
| 5. FIREFIGHTING MEASURES                                                   |                                                                                                                                                                                         |

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### 5.1 Extinguishing media

Suitable extinguishing agents:  
- Dry extinguishing agent  
- Alcohol resistant foam  
- Carbon dioxide  
- Water spray  
Unsuitable extinguishing agents:  
- Direct water jet can spread the fire

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

Do not allow waste water from firefighting to enter sewers/surface waters/groundwater.

### 5.3 Advice for fire-fighters

Avoid inhalation of smoke and fumes. In case of insufficient ventilation, use breathing apparatus. Contaminated extinguishing water must not be allowed to enter the sewage system and must be disposed of in accordance with local official regulations.

## 6. ACCIDENTAL RELEASE MEASURES

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

**6.1.1 For non-emergency personnel:** Wear suitable protective gloves when handling spilled material. Do not smoke. Avoid open flames and other sources of ignition. Avoid contact with skin. Do not inhale vapors. Individual cleaning after possible contact. Ensure adequate ventilation.

**6.1.2 For emergency personnel:** Apply the same recommendations as section 6.1.1

### 6.2 Environmental precautions

Do not allow to enter drains/surface waters/groundwater. In case of contamination of water, inform the competent authorities.

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

**6.3.1 For containment:** Set up barriers and cover the sewage system to prevent large-scale spread.

**6.3.2 For cleaning-up:** Immediately absorb with suitable liquid-binding and non-flammable materials (e.g. sand, silica gel, universal binder). Collect bound material in suitable and sealable containers and dispose of in accordance with official regulations.

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- 6.4 Reference to other sections:** See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Wear suitable protective gloves and goggles / face shield. Do not smoke. Avoid all sources of ignition. Avoid excessive temperature during processing. Do not ingest or apply directly to skin. Good ventilation of storage and work place.

- 7.1.1 Protective measures:** Keep strict control of dust accumulation to a minimum. Maintain adequate local and general ventilation where product is handled. Avoid any sources of ignition.

- 7.1.2 Advice on general occupational hygiene:** Do not eat / drink / smoke at the workplace.  
Wash hands after use.  
Immediately remove contaminated clothing and protective equipment and clean before reuse.

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

- 7.2.1 Requirements to be met by store rooms and receptacles:** Store tightly closed and dry in containers that are as full as possible in a well-ventilated area. Keep away from heat sources. Protect from extreme temperatures.  
Store at room temperature (10 - 30 °C). Protect from exposure to light.  
Do not reuse empty containers.  
Storage class according to TRGS 510: 10

- 7.2.2 Information about storage in one common storage facility:** Do not store together with storage classes 1 / 4.2 / 4.3 / 5 / 6.2 / 7.

- 7.2.3 Further information about storage conditions:** The product may discolor due to prolonged storage. Crystallization is possible with cool storage. If necessary, warm slightly (40 °C) and mix well before use.

### 7.3 Specific end use(s)

Perfuming of consumer products

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

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### Ingredients with limit values that require monitoring at the workplace

| Name                                        | Short-term value     |       | Long-term value      |       | CAS No            | Country | Comment                 |
|---------------------------------------------|----------------------|-------|----------------------|-------|-------------------|---------|-------------------------|
| Type                                        | [mg/m <sup>3</sup> ] | [ppm] | [mg/m <sup>3</sup> ] | [ppm] |                   |         |                         |
| <b>3-(3-Hydroxypropoxy)propan-1-ol</b>      |                      |       |                      |       | <b>25265-71-8</b> |         |                         |
| MAK                                         | 280                  |       | 140                  |       |                   | CH      | SSc                     |
| AGW                                         |                      |       | 100                  |       |                   | DE      | 2(II);DFG, Y, 11        |
| MV                                          | 200                  |       | 100                  |       |                   | SI      | Inhalabilna frakcija, Y |
| <b>1-Methyl-4-prop-1-en-2-ylcyclohexene</b> |                      |       |                      |       | <b>5989-27-5</b>  |         |                         |
| MAK                                         | 80                   | 14    | 40                   | 7     |                   | CH      | S SSc                   |
| AGW                                         |                      |       | 28                   | 5     |                   | DE      | 4(II);DFG, H, Sh, Y     |
| LEP                                         |                      |       | 168                  | 30    |                   | ES      | Sen, vġa dġrmica        |
| HTP                                         | 280                  | 50    | 140                  | 25    |                   | FI      |                         |
| AG                                          |                      |       | 140                  | 25    |                   | NO      | A                       |
| MV                                          | 112                  | 20    | 28                   | 5     |                   | SI      | K, Y                    |

### 8.2 Exposure controls

#### 8.2.1 Engineering measures

Ensure adequate ventilation, especially in confined areas.

#### Additional information about design of technical facilities:

No further data, see item 7.

#### 8.2.2 Personal protective equipment

##### Respiratory protection:

In case of insufficient ventilation use respirator (according to EN 14387 or other governmental standards such as CEN accordingly).

##### Gloves:

Wear solvent resistant gloves according to EN 374. The permeation time must exceed the contact time.

##### Eye protection:

Use safety goggles and face shield tested according to EN 166.

##### Body protection:

Wear work clothes that cover arms and legs.

##### Hygiene measures:

Avoid contact with skin and eyes. Do not eat/drink/smoke during use. Wash hands after use.

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### 8.2.3 Limitation and supervision of exposure into the environment

Take precautions to prevent the product from entering the sewage system. In case of contamination of water or sewage system, inform the responsible authorities.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                                                           |                                          |
|-----------------------------------------------------------|------------------------------------------|
| <b>State of aggregation:</b>                              | liquid                                   |
| <b>Color:</b>                                             | yellow-lightyellow                       |
| <b>Odor:</b>                                              | ambery - musky - woody                   |
| <b>Melting point/Freezing point:</b>                      | Not determined                           |
| <b>Boiling point/Boiling range:</b>                       | Not determined                           |
| <b>Flammability:</b>                                      | Not determined                           |
| <b>Lower and upper explosion limits:</b>                  | Not determined                           |
| <b>Flash point (°C):</b>                                  | 103.0 Method: Pensky-Martens, closed cup |
| <b>Ignition temperature (°C):</b>                         | Not determined                           |
| <b>Decomposition temperature (°C):</b>                    | Not determined                           |
| <b>pH value:</b>                                          | Non-aqueous product                      |
| <b>Kinematic viscosity:</b>                               | Not determined                           |
| <b>Solubility:</b>                                        | Not determined                           |
| <b>Partition coefficient n-octanol/water (log value):</b> | Not determined                           |
| <b>Vapor pressure:</b>                                    | Not determined                           |
| <b>Relative density:</b>                                  | 1.0091                                   |
| <b>Relative vapor density:</b>                            | Not determined                           |

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|--------------------------------|----------------|
| <b>Particulate properties:</b> | Not determined |
| <b>9.2 Other information</b>   |                |
| <b>Solvent content:</b>        | 65.0%          |
| <b>VOC:</b>                    | 0.94%          |

| 10. STABILITY AND REACTIVITY                    |                                                                                                                             |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity:</b>                         | No reaction known with water.                                                                                               |
| <b>10.2 Chemical Stability:</b>                 | Good stability at standard temperature.                                                                                     |
| <b>10.3 Possibility of hazardous reactions:</b> | No decomposition when properly stored and used.                                                                             |
| <b>10.4 Conditions to avoid:</b>                | Avoid excessive heat above at least 5 °C below flash point for flammable liquids. Do not heat closed containers.            |
| <b>10.5 Incompatible materials:</b>             | Do not store together with storage classes 1 / 4.2 / 4.3 / 5 / 6.2 / 7.                                                     |
| <b>10.6 Hazardous decomposition products:</b>   | Proper use, contact with water or storage under recommended conditions should not produce hazardous decomposition products. |

| 11. TOXICOLOGICAL INFORMATION                                                       |                                          |
|-------------------------------------------------------------------------------------|------------------------------------------|
| <b>11.1 Information on hazard classes according to Regulation (EC) No 1272/2008</b> |                                          |
| <b>Acute toxicity:</b>                                                              | The classification criteria are not met. |
| <b>Skin corrosion/irritation:</b>                                                   | The classification criteria are not met. |
| <b>Serious eye damage / irritation:</b>                                             | The classification criteria are not met. |
| <b>Respiratory or skin sensitisation:</b>                                           | May cause an allergic skin reaction.     |
| <b>CMR effects:</b>                                                                 |                                          |
| <b>Germ cell mutagenicity:</b>                                                      | The classification criteria are not met. |
| <b>Carcinogenicity:</b>                                                             | The classification criteria are not met. |
| <b>Reproductive toxicity:</b>                                                       | The classification criteria are not met. |

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|                                                            |                                                                                                                                                            |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific Target Organ Toxicity – single exposure:</b>   | The classification criteria are not met.                                                                                                                   |
| <b>Specific Target Organ Toxicity – repeated exposure:</b> | The classification criteria are not met.                                                                                                                   |
| <b>Aspiration hazard:</b>                                  | The classification criteria are not met.                                                                                                                   |
| <b>11.2 Information on other hazards</b>                   |                                                                                                                                                            |
| <b>Endocrine disrupting properties:</b>                    | No substances with endocrine-disrupting properties contained according to the criteria from Regulations (EC) No. 1907/2006, (EU) 2017/2100, (EU) 2018/605. |
| <b>Other information:</b>                                  | No data available                                                                                                                                          |

## 12. ECOLOGICAL INFORMATION

|                                                 |                                                                                                                                                                                      |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.1 Toxicity:</b>                           | No data available for the mixture.<br>The product must be labeled according to Regulation (EC) No. 1272/2008 (CLP) in the currently valid version.                                   |
| <b>12.2 Persistence and degradability:</b>      | No data available for the mixture.                                                                                                                                                   |
| <b>12.3 Bioaccumulative potential:</b>          | No data available for the mixture.                                                                                                                                                   |
| <b>12.4 Mobility in soil:</b>                   | No data available for the mixture.                                                                                                                                                   |
| <b>12.5 Results of PBT and vPvB assessment:</b> | This mixture does not contain substances classified as PBT or vPvB.                                                                                                                  |
| <b>12.6 Endocrine disrupting properties:</b>    | This mixture does not contain any substances with endocrine-disrupting properties according to the evaluation criteria set out in (EC) No. 1907/2006, (EU) 2017/2100, (EU) 2018/605. |
| <b>12.7 Other adverse effects:</b>              | In case of improper handling or disposal, an environmental hazard cannot be excluded.                                                                                                |

## 13. DISPOSAL CONDITIONS

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- 13.1 Waste treatment methods:** Do not dispose of residues/waste of the product via sewers/wastewater, but treat according to the instructions mentioned above, see points 6, 7 and 8. Do not reuse empty containers and do not incinerate. Hand over residual/waste product and contaminated packaging to an authorized disposal company. Dispose of in accordance with official regulations.

### 14. TRANSPORT INFORMATION

#### 14.1 UN number or ID number

**ADR:** UN 3082  
**IMDG:** UN 3082  
**IATA:** UN 3082

#### 14.2 UN proper shipping name

**ADR:** Environmentally hazardous substance, liquid, n.o.s.  
(1-(2,3,8,8-Tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl)ethanone, Mixture)  
**IMDG:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(1-(2,3,8,8-Tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl)ethanone, Mixture)  
**IATA:** Environmentally hazardous substance, liquid, n.o.s.  
(1-(2,3,8,8-Tetramethyl-1,3,4,5,6,7-hexahydronaphthalen-2-yl)ethanone, Mixture)

#### 14.3 Transport hazard classes

**ADR:** 9  
**IMDG:** 9  
**IATA:** 9

#### 14.4 Packing group

**ADR:** III  
**IMDG:** III  
**IATA:** III

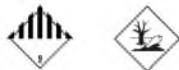
#### 14.5 Environmental hazards

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**Marine pollutant:**



**Special marking (ADR):**



**Special marking (IATA):**



**EMS code:**

F-A, S-F

### 14.6 Special precautions for the user

The transport classifications provided herewith are based on the properties of the unpackaged material according to this Safety Data Sheet. Refer to sections 2, 7 and 8.

### 14.7 Carriage of bulk cargo by sea in accordance with IMO instruments

Not applicable.

## 15. REGULATORY INFORMATION

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

#### 15.1.1 Directive 2012/18/EU (Seveso)

**Named hazardous substances - Annex I:** None of the substances are included.

**Seveso Category:** E2 hazardous to the aquatic environment  
200 t  
500 t

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### 15.1.2 Regulation (EC) No 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorization:** None of the substances are included.

**Substances of very high concern (SVHC):** None of the substances are included.

**Annex XVII - Restriction on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:** None of the substances are included.  
Restriction: 3

### 15.1.3 Water hazard class (Germany)

WGK 2 - clearly hazardous to water

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this mixture.

## 16. Other information

**16.1 Full text of abbreviated H-phrases**

|      |                                                       |
|------|-------------------------------------------------------|
| H226 | Flammable liquid and vapour.                          |
| H302 | Harmful if swallowed.                                 |
| H304 | May be fatal if swallowed and enters airways.         |
| H312 | Harmful in contact with skin.                         |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H319 | Causes serious eye irritation.                        |
| 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.    |

**16.2 Full text of abbreviated classifications (GHS)**

Acute Tox. 4 derm. - Acute Toxicity, Dermal  
Acute Tox. 4 oral - Acute Toxicity, Oral  
Aquatic Acute 1 - Acute Aquatic Toxicity  
Aquatic Chronic 1 - Chronic Aquatic Toxicity  
Aquatic Chronic 2 - Chronic Aquatic Toxicity  
Aquatic Chronic 3 - Chronic Aquatic Toxicity  
Asp. Tox. 1 - Aspiration Toxicity  
Eye Irrit. 2 - Eye irritation  
Flam. Liq. 3 - Flammable Liquids  
Repr. 2 - Reproductive toxicity  
Skin Irrit. 2 - Skin irritation  
Skin Sens. 1A - Skin Sensitisers

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|                                        |        |                                                                                                                                                              |
|----------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>16.3 Abbreviations and acronyms</b> | ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road                                                                          |
|                                        | EINECS | European Inventory of Existing Commercial Chemical Substances                                                                                                |
|                                        | GHS    | Globally Harmonized System of Classification and Labelling of Chemicals                                                                                      |
|                                        | IATA   | International Air Transport Association                                                                                                                      |
|                                        | IMDG   | International Maritime Code for Dangerous Goods                                                                                                              |
|                                        | MAK    | Maximale Arbeitsplatzkonzentration                                                                                                                           |
|                                        | REACH  | Registration, Evaluation, Authorisation and Restriction of Chemical substances, European Community Regulation on chemicals and their safe use (EC 1907/2006) |
|                                        | VOC    | Volatile Organic Compounds (Switzerland)                                                                                                                     |

|                                      |                                                                           |
|--------------------------------------|---------------------------------------------------------------------------|
| <b>16.4 Recommended applications</b> | Concentrated perfumery raw material. Unsuitable for personal use as such. |
|--------------------------------------|---------------------------------------------------------------------------|

|                                 |                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>16.5 Reason for revision</b> | Change from previous revision:<br>Updated classification information of the mixture ingredients (section 3.2) |
|---------------------------------|---------------------------------------------------------------------------------------------------------------|

The recommendations in this safety data sheet reflect the knowledge available to us on the date of going to print. They are intended to give you hints for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and waste disposal. This information cannot be transferred to other products. In those cases where the product mentioned in this safety data sheet is blended, mixed or processed with other materials or processed in any other way, the information contained in this safety data sheet cannot be related to the new material obtained in this way.