according to Regulation (EC) No. 1907/2006

# **ORANGE & BITTER CHOCOLATE**



Version Revision Date: 2.0 27.04.2022 SDS Number: 906605

Date of last issue: 27.03.2022 Date of first issue: 27.03.2022

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

### 1.1 Product identifier

Trade name

: ORANGE & BITTER CHOCOLATE

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

Use of the Sub- : Fragrance mix stance/Mixture

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

Candle Supply Pty Ltd Unit 3 8-9 Lagana Place Wetherill Park, NSW 2164 ABN: 70612899626

Phone Number: 02 8741 4000 e-mail: customerservice@candlesupply.com.au

#### 1.4 Emergency telephone number

13 11 26

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

| Classification (REGULATION (EC) No 1272/2008)       |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| Eye irritation, Category 2                          | H319: Causes serious eye irritation.                     |  |  |  |  |  |  |
| Skin sensitisation, Category 1                      | H317: May cause an allergic skin reaction.               |  |  |  |  |  |  |
| Long-term (chronic) aquatic hazard, Cat-<br>egory 3 | H412: Harmful to aquatic life with long lasting effects. |  |  |  |  |  |  |

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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|-------------|----------|------------------------------|---|---|---|
|             | Hazard   | pictograms                   | : |   |   |
|             | Signal v | word                         | : | Warning   |   |
|             | Hazard   | statements                   | : | H319 Causes se  | an allergic skin reaction.<br>rious eye irritation.<br>aquatic life with long lasting effects.  |
|             | Precaut  | tionary statements           | : | Prevention:   |   |
|             |          |                              |   | P272 Contamina<br>of the workplace.<br>P273 Avoid relea | thing mist or vapours.<br>ted work clothing should not be allowed out<br>ase to the environment.<br>ective gloves/ eye protection/ face protection. |
|             |          |                              |   | Response:   |   |
|             |          |                              |   | advice/ attention.                                      | skin irritation or rash occurs: Get medical eye irritation persists: Get medical advice/  |

### Hazardous components which must be listed on the label:

(R)-p-mentha-1,8-diene; d-limonene Isovaleraldehyde

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

#### 3.2 Mixtures

### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification     | Concentration<br>(% w/w) |
|---------------|---|--------------------|--------------------------|
| Vanillin      | 121-33-5  | Eye Irrit. 2; H319 | >= 1 - < 10              |

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|--------------|-------------------|---------------------------|-----------------------|---|---------------|
|              |                   |                           | 204-465-2             |   |               |
|              |                   |                           | 01-211951604          | 0-60  |               |
|              |                   |                           | 01-211951604          | 0-60  |               |
|              |                   |                           | 01-211951604          | 0-60  |               |
|              |                   |                           | 01-211951604          | 0-60  |               |
|              |                   |                           | 01-211951604          | 0-60  |               |
| -            | 3-Etho            | xy-4-hydroxybenzaldehyc   | e 121-32-4            | Eye Irrit. 2; H319  | >= 1 - < 10   |
|              |                   |                           | 204-464-7             |   |               |
|              | (R)-p-n<br>limone | nentha-1,8-diene; d-      | 5989-27-5             | Flam. Liq. 3; H226<br>Skin Irrit. 2; H315                                   | >= 1 - < 2,5  |
|              | linone            |                           | 227-813-5             | Skin Sens. 1B; H31  | 7             |
|              |                   |                           | 601-029-00-7          | Asp. Tox. 1; H304<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410 |               |
|              | Isopen            | tyl phenylacetate         | 102-19-2              | Aquatic Chronic 2;<br>H411  | >= 1 - < 2,5  |
|              |                   |                           | 203-012-6             |   |               |
|              | Isovale           | eraldehyde                | 590-86-3              | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319                                    | >= 0,25 - < 1 |
|              |                   |                           | 209-691-5             | Skin Sens. 1; H317<br>STOT SE 3; H335                                       |               |
|              |                   |                           | 01-211945680<br>27xxx | 7- (Respiratory system<br>Aquatic Chronic 2;<br>H411                        | n)            |
|              |                   | nces with a workplace ex  |                       |   |               |
|              | (2-Met            | hoxymethylethoxy)propar   | ol 34590-94-8         |   | >= 70 - < 90  |
|              |                   |                           | 252-104-2             |   |               |
|              |                   |                           | 01-211945001          | 1-60  |               |
|              |                   |                           | 01-211945001          | 1-60  |               |
|              |                   |                           | 01-211945001          | 1-60  |               |
|              |                   |                           | 01-211945001          | 1-60  |               |
|              |                   |                           | 01-211945001          | 1-60  |               |
| L            | _                 | lanation of obbraviations |                       |   |               |

For explanation of abbreviations see section 16.

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### **SECTION 4: First aid measures**

| 4.1 Description of first aid measu | ures | <b>i</b>   |
|------------------------------------|------|--|
| General advice                     | :    | Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.   |
| Protection of first-aiders         | :    | First Aid responders should pay attention to self-protection and use the recommended protective clothing   |
| If inhaled                         | :    | Remove person to fresh air. If signs/symptoms continue, get<br>medical attention.<br>Keep patient warm and at rest.<br>If breathing is irregular or stopped, administer artificial respira-<br>tion. |
| In case of skin contact            | :    | Take off contaminated clothing and shoes immediately.<br>Wash off with soap and plenty of water.<br>If symptoms persist, call a physician.   |
| In case of eye contact             | :    | Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.          |
| If swallowed                       | :    | Rinse mouth with water.<br>Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.              |
| 4.2 Most important symptoms ar     | nd e | ffects, both acute and delayed   |
| Risks                              | :    | May cause an allergic skin reaction.<br>Causes serious eye irritation.   |
|                                    |      | First aider needs to protect himself.  |
| 4.3 Indication of any immediate r  | med  | lical attention and special treatment needed   |
| Treatment                          | :    | The first aid procedure should be established in consultation<br>with the doctor responsible for industrial medicine.<br>There is no specific antidote available.                                    |
| SECTION 5: Firefighting meas       | sure | 9S   |

### 5.1 Extinguishing media

Suitable extinguishing media :

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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|--|--|--------------|-----|--|--|
|  | Unsuitable exting<br>media             | juishing     | :   | High volume wate   | r jet  |
| 5.2 S  | pecial hazards                         | arising from | the | substance or mix   | cture  |
| Hazardous combustion prod- : No hazardous combustion products are known ucts |  |              |     | nbustion products are known  |  |
| 5.3 A  | dvice for firefig                      | hters        |     |  |  |
|  | Special protective<br>for firefighters | e equipment  | :   | In the event of fire   | e, wear self-contained breathing apparatus.  |
| I  | Further information                    | on           | :   | Standard procedu<br>Collect contamina<br>must not be disch<br>Fire residues and<br>be disposed of in | e and/or explosion do not breathe fumes.<br>the for chemical fires.<br>the fire extinguishing water separately. This<br>arged into drains.<br>contaminated fire extinguishing water must<br>accordance with local regulations.<br>to cool fully closed containers. |

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

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

| Personal precautions  | : | Use personal protective equipment.<br>Ensure adequate ventilation.<br>Evacuate personnel to safe areas.  |
|---|---|--|
| <b>6.2 Environmental precautions</b><br>Environmental precautions | : | Do not flush into surface water or sanitary sewer system.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform<br>respective authorities. |

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

| Methods for cleaning up | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). |
|-------------------------|---|--|
|                         |   | Keep in suitable, closed containers for disposal.  |

#### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

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

### 7.1 Precautions for safe handling

| Advice on safe handling | : | Avoid formation of aerosol.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the ap-<br>plication area.<br>Provide sufficient air exchange and/or exhaust in work rooms. |
|-------------------------|---|---|
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|------------|--|--------------------------------------|---|---|---|--|--|--|
|            |  |                                      |   | Dispose of rinse v<br>regulations.  | water in accordance with local and national   |  |  |  |
|            |  | on protection against<br>d explosion | : | Normal measures   | s for preventive fire protection.   |  |  |  |
|            | Hygiene measures   |                                      | : | When using do not eat or drink. When using do not smoke.<br>Wash hands before breaks and at the end of workday. |   |  |  |  |
| 7.2        | 7.2 Conditions for safe storage, including any incompatibilities |                                      |   |   |   |  |  |  |
|            |  | ements for storage<br>and containers | : | place. Containers<br>sealed and kept u  | ghtly closed in a dry and well-ventilated<br>which are opened must be carefully re-<br>pright to prevent leakage. Electrical installa-<br>aterials must comply with the technological |  |  |  |
|            | Advice   | on common storage                    | : | No special restric  | tions on storage with other products.   |  |  |  |
|            | Storag   | e class (TRGS 510)                   | : | 10, Combustible   | iquids  |  |  |  |
|            | Furthe age sta   | r information on stor-<br>ability    | : | No decomposition  | n if stored and applied as directed.  |  |  |  |
| 7.3        | -  | <b>c end use(s)</b><br>c use(s)      | : | Fragrance mix   |   |  |  |  |

### SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### **Occupational Exposure Limits**

| Components                               | CAS-No.  | Value type (Form of exposure) | Control parameters  | Basis          |  |  |  |
|--|--|-------------------------------|---------------------|----------------|--|--|--|
| (2-<br>Methoxymeth-<br>ylethoxy)propanol | 34590-94-8                                       | MAK (vapour)                  | 50 ppm<br>310 mg/m3 | DFG            |  |  |  |
|  |  | TWA                           | 50 ppm<br>308 mg/m3 | 91/322/EEC     |  |  |  |
|  |  | TWA                           | 50 ppm<br>308 mg/m3 | EU SCOEL       |  |  |  |
|  |  | AGW (Vapor and aerosol)       | 50 ppm<br>310 mg/m3 | DE TRGS<br>900 |  |  |  |
|  | Further information: Sum of vapors and aerosols. |                               |                     |                |  |  |  |
| (R)-p-mentha-1,8-<br>diene; d-limonene   | 5989-27-5  | MAK                           | 5 ppm<br>28 mg/m3   | DFG            |  |  |  |
|  |  | AGW                           | 5 ppm<br>28 mg/m3   | DE TRGS<br>900 |  |  |  |
| Isovaleraldehyde                         | 590-86-3   | AGW                           | 10 ppm              | DE TRGS        |  |  |  |

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|----------------|---------------------------|---------------------------------|---|---|--|--|--|
|                |                           |                                 | 39 mg/m3  | 900   |  |  |  |
| 8.2 Expos      | sure controls             |                                 |   |   |  |  |  |
| Pers           | onal protective equip     | ment                            |   |   |  |  |  |
| Eye protection |                           | Tightly fi<br>Wear fac          | Eye wash bottle with pure water<br>Tightly fitting safety goggles<br>Wear face-shield and protective suit for abnormal processing<br>problems.  |   |  |  |  |
| Hand           | protection                |                                 |   |   |  |  |  |
| R              | emarks                    | ing perm<br>workplac<br>Wear ch | te of the information given by the<br>neability and break through times,<br>ce conditions (mechanical strain, c<br>emicals-resistant gloves, e.g. safe<br>ss 0.4mm) or of butyl rubber (thick | and of special<br>luration of contact).<br>ety gloves of nitril |  |  |  |
| Skin           | and body protection       | Choose I                        | us clothing<br>body protection according to the a<br>n of the dangerous substance at t  |   |  |  |  |
| Resp           | iratory protection        | : Not requ                      | ired; except in case of aerosol for   | mation.   |  |  |  |

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

| Physical state                                   | : |   |
|--|---|---|
| Colour   | : | colorless to yellow                           |
| Odour  | : | characteristic                                |
| Odour Threshold                                  | : | No data available                             |
| Melting point/freezing point                     | : |   |
|  |   | not determined                                |
| Boiling point/boiling range                      | : | not determined                                |
| Upper explosion limit / Upper flammability limit | : | Vapours may form explosive mixtures with air. |
| Lower explosion limit / Lower flammability limit | : | Vapours may form explosive mixtures with air. |
| Flash point                                      | : | 73 °C   |
| Decomposition temperature                        | : | not determined                                |
| рН   | : | not determined                                |
|  |   |   |

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|-------------------------|---------------|-------------------------------|----------------|---------------------------------|---|
|                         | Viscos<br>Vis | ity<br>cosity, dynamic        | :              | not determined                  |   |
|                         | Vis           | cosity, kinematic             | :              | not determined                  |   |
|                         |               | on coefficient: n-<br>l/water | :              | not determined                  |   |
|                         | Vapou         | r pressure                    | :              | 1 kPa (50 °C)<br>calculated     |   |
|                         | Relativ       | e density                     | :              | -,,                             | (20 °C)<br>ty of water at 4°C                                     |
|                         | Bulk d        | ensity                        | :              | Not applicable                  |   |
| Relative vapour density |               | :                             | not determined |                                 |   |
| 9.2 (                   | Other in      | nformation                    |                |                                 |   |
|                         | Explos        | sives                         | :              | Due to its structo<br>explosive | ural properties, the product is not classified as                 |
|                         | Oxidizi       | ing properties                | :              | The substance of                | or mixture is not classified as oxidizing.                        |
|                         | Self-ig       | nition                        | :              | The substance of                | or mixture is not classified as self heating.                     |
|                         | Evapo         | ration rate                   | :              | Lower than the e                | evaporation rate of butyl acetate = 1                             |
| Molecular weight :      |               | :                             | not determined |                                 |   |

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions

: No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

#### 10.4 Conditions to avoid

| Conditions to avoid | : | No data available |
|---------------------|---|-------------------|
|---------------------|---|-------------------|

### 10.5 Incompatible materials

Materials to avoid : No data available

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#### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

### **SECTION 11: Toxicological information**

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

#### Acute toxicity

Not classified based on available information.

### Components:

Vanillin:

| Acute oral toxicity       | : | LD50 Oral (Rat, male and female): 3.300 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: no    |
|---------------------------|---|--|
| Acute inhalation toxicity | : | Remarks: No data available   |
| Acute dermal toxicity     | : | LD50 Dermal (Rat, male and female): 2.600 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes |

#### 3-Ethoxy-4-hydroxybenzaldehyde:

| Acute oral toxicity   | : | LD50 Oral (Rat, male and female): 3.160 mg/kg<br>Method: OECD Test Guideline 401                 |
|-----------------------|---|--|
| Acute dermal toxicity | : | LD50 Dermal (Rat, male and female): > 2.000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes |

#### (R)-p-mentha-1,8-diene; d-limonene:

| Acute dermal toxicity   | : | LD50 (Rabbit): > 5.000 mg/kg<br>Remarks: Information given is based on data obtained from<br>similar substances. |
|-------------------------|---|--|
| Isopentyl phenylacetate |   |  |
|                         | • |  |
| Acute oral toxicity     |   | LD50 Oral (Rat): > 5.000 mg/kg   |
|                         |   |  |
| Acute dermal toxicity   | : | LD50 (Rabbit): > 5.000 mg/kg   |
|                         |   |  |
| Isovaleraldehyde:       |   |  |
| •                       |   | DFO(Pat)  = 2.720  mg//g   |
| Acute oral toxicity     | : | LD50 (Rat): 2.730 mg/kg  |
|                         |   |  |
| Acute dermal toxicity   | : |  |
|                         |   | Method: OECD Test Guideline 402  |
|                         |   | GLP: no  |
|                         |   |  |

### (2-Methoxymethylethoxy)propanol:

| Acute oral toxicity | : LD50 (Rat): > 5.000 mg/kg |
|---------------------|-----------------------------|
|---------------------|-----------------------------|

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| Acute        | inhalation toxicity       | : LC50 (Rat): 50      | 00 mg/l   |  |  |
|              |                           | Exposure time         | : 7 h   |  |  |
| Acute        | dermal toxicity           | : LD50 (Rabbit)       | : > 5.000 mg/kg   |  |  |
| Skin d       | corrosion/irritation      |                       |   |  |  |
| Not cl       | assified based on ava     | ilable information.   |   |  |  |
| <u>Comp</u>  | oonents:                  |                       |   |  |  |
| Vanill       | in:                       |                       |   |  |  |
| Speci        | es                        | : Rat                 |   |  |  |
| Expos        | sure time                 | : 24 h                |   |  |  |
| Resul        | t                         | : No skin irritatio   | on  |  |  |
| Dose         | a tration                 | : 2000 mg/kg          |   |  |  |
| Conce        | entration                 | : 69,56 %             |   |  |  |
| 3-Eth        | oxy-4-hydroxybenza        | Ildehyde:             |   |  |  |
| Speci        |                           | : Rabbit              |   |  |  |
|              | sure time                 | : 4 h                 |   |  |  |
| Metho        |                           | : OECD Test G         |   |  |  |
| Resul<br>GLP | t                         | : No skin irritatio   | n   |  |  |
| Dose         |                           | : yes<br>: 500 mg     |   |  |  |
|              | entration                 | : 100 %               |   |  |  |
| Isope        | ntyl phenylacetate:       |                       |   |  |  |
| Speci        |                           | : Rabbit              |   |  |  |
| Resul        |                           | : Mild skin irritat   | ion   |  |  |
| Isova        | leraldehyde:              |                       |   |  |  |
| Speci        | •                         | : Rabbit              |   |  |  |
| Expos        | sure time                 | : 4 h                 |   |  |  |
| Metho        | od                        | : OECD Test G         |   |  |  |
| Resul        | t                         | : Mild skin irritat   | ion   |  |  |
| Dose         | ntrotion                  | : 0,5                 |   |  |  |
| Conce        | entration                 | : 98,5 %              |   |  |  |
| (2-Me        | thoxymethylethoxy)        | propanol:             |   |  |  |
| Speci        |                           | : Rabbit              |   |  |  |
| Resul        | t                         |                       | Mild skin irritation  |  |  |
| Dose         |                           | : 500 mg              |   |  |  |

Causes serious eye irritation.

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### Components:

### Vanillin:

| Species       | : | Rabbit                  |
|---------------|---|-------------------------|
| Method        | : | OECD Test Guideline 405 |
| Result        | : | Irritating to eyes.     |
| GLP           | : | yes                     |
| Dose          | : | 100 MG                  |
| Concentration | : | 100 %                   |

#### 3-Ethoxy-4-hydroxybenzaldehyde:

| Species       | Rabbit                  |
|---------------|-------------------------|
| Method        | OECD Test Guideline 405 |
| Result        | Eye irritation          |
| GLP           | yes                     |
| Concentration | 100 %                   |

#### Isovaleraldehyde:

| Species       | : | Rabbit                  |
|---------------|---|-------------------------|
| Method        | : | Draize Test             |
| Result        | : | Moderate eye irritation |
| GLP           | : | no                      |
| Concentration | : | 100 %                   |

#### (2-Methoxymethylethoxy)propanol:

| Species       | : | Rabbit              |
|---------------|---|---------------------|
| Exposure time | : | 24 h                |
| Result        | : | Mild eye irritation |
| Dose          | : | 500 MG              |
| _             |   | •                   |

#### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

### Components:

### Vanillin:

| Maximisation Test                   |
|-------------------------------------|
| Guinea pig                          |
| Directive 67/548/EEC, Annex V, B.6. |
| No sensitizing effect.              |
| yes                                 |
| 73 %                                |
|                                     |

#### 3-Ethoxy-4-hydroxybenzaldehyde:

| Test Type | : Local Lymph Node Assay |
|-----------|--------------------------|
| Species   | : Mouse                  |

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|-------------------|--|---|---|
| Metho             | od   | : OECD 429  |   |
| Resul             | lt   | : No sensitizi  | ng effect.  |
| GLP               |  | : yes   |   |
|                   | entration  | : 50 %  |   |
| solve             | nts  | : Acetone/Oli   | ve oil (4:1)  |
| Isope             | entyl phenylacetate:                                 |   |   |
| Test <sup>-</sup> | Гуре   | : Maximisatio   | n Test  |
| Speci             |  | : Humans  |   |
| Resul             |  | : No sensitizi  | ng effect.  |
|                   | entration  | : 2%  |   |
| solve             | nts  | : Petrolatum  |   |
| Isova             | leraldehyde:   |   |   |
| Resul             | lt   | : Sensitizing   | effect.   |
| (2-Me             | thoxymethylethoxy                                    | )propanol:  |   |
| Resul             | lt   | : No sensitizi  | ng effect.  |
|                   | a <b>cell mutagenicity</b><br>lassified based on ava | ailable information.  |   |
| <u>Com</u>        | oonents:   |   |   |
| Vanil             | lin:   |   |   |
|                   |  |   |   |
| Geno              | toxicity in vitro                                    |   | ctivation: with and without metabolic activation<br>gulation (EC) No. 440/2008, Annex, B.13/14  |
| Geno              | toxicity in vitro                                    | Metabolic a<br>Method: Re<br>(Ames test)<br>Result: nega<br>GLP: yes<br>Test Type: I<br>Test system<br>Metabolic a  | ctivation: with and without metabolic activation<br>gulation (EC) No. 440/2008, Annex, B.13/14<br>ative<br>n vitro Mammalian Chromosome Aberration Tes<br>chinese hamster ovary cells<br>ctivation: with and without metabolic activation<br>gulation (EC) No. 440/2008, Annex, B.10  |
|                   | toxicity in vitro                                    | Metabolic a<br>Method: Re<br>(Ames test)<br>Result: nega<br>GLP: yes<br>Test Type: I<br>Test system<br>Metabolic a<br>Method: Re<br>Result: nega<br>GLP: yes<br>: Test Type: N<br>Species: Mo<br>Cell type: B<br>Application  | ctivation: with and without metabolic activation<br>gulation (EC) No. 440/2008, Annex, B.13/14<br>ative<br>n vitro Mammalian Chromosome Aberration Tes<br>:: Chinese hamster ovary cells<br>ctivation: with and without metabolic activation<br>gulation (EC) No. 440/2008, Annex, B.10<br>ative<br>Micronucleus test<br>puse (female)<br>one marrow<br>Route: Oral<br>tagenicity (micronucleus test)         |
| Geno              |  | Metabolic a<br>Method: Re<br>(Ames test)<br>Result: nega<br>GLP: yes<br>Test Type: I<br>Test system<br>Metabolic a<br>Method: Re<br>Result: nega<br>GLP: yes<br>Test Type: N<br>Species: Mo<br>Cell type: B<br>Application<br>Method: Mu<br>Result: nega<br>GLP: no                                   | ctivation: with and without metabolic activation<br>gulation (EC) No. 440/2008, Annex, B.13/14<br>ative<br>n vitro Mammalian Chromosome Aberration Tes<br>:: Chinese hamster ovary cells<br>ctivation: with and without metabolic activation<br>gulation (EC) No. 440/2008, Annex, B.10<br>ative<br>Micronucleus test<br>puse (female)<br>one marrow<br>Route: Oral<br>tagenicity (micronucleus test)         |
| Geno<br>3-Eth     | toxicity in vivo                                     | Metabolic a<br>Method: Re<br>(Ames test))<br>Result: nega<br>GLP: yes<br>Test Type: I<br>Test system<br>Metabolic a<br>Method: Re<br>Result: nega<br>GLP: yes<br>: Test Type: N<br>Species: Mo<br>Cell type: B<br>Application<br>Method: Mu<br>Result: nega<br>GLP: no<br>aldehyde:<br>: Test Type: A | ctivation: with and without metabolic activation<br>gulation (EC) No. 440/2008, Annex, B.13/14<br>ative<br>n vitro Mammalian Chromosome Aberration Tes<br>: Chinese hamster ovary cells<br>ctivation: with and without metabolic activation<br>gulation (EC) No. 440/2008, Annex, B.10<br>ative<br>Micronucleus test<br>puse (female)<br>one marrow<br>Route: Oral<br>tagenicity (micronucleus test)<br>ative |

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|----------------|---|---|--|
|                |   | Method: OEC<br>Result: negati<br>GLP: No infor      |  |
|                | pentyl phenylacetate:<br>notoxicity in vitro              | : Test Type: An<br>Metabolic acti<br>Result: negati | vation: with and without metabolic activation  |
|                | <b>cinogenicity</b><br>classified based on avai           | lable information                                   |  |
|                | productive toxicity                                       |   |  |
| -              | classified based on avai                                  | lable information.                                  |  |
|                | <b>DT - single exposure</b><br>classified based on avai   | lable information.                                  |  |
|                | <b>DT - repeated exposure</b><br>classified based on avai |   |  |
| -              | <b>Diration toxicity</b><br>classified based on avai      | lable information.                                  |  |
| 11.2 Info      | ormation on other haza                                    | rds   |  |
| End            | docrine disrupting prop                                   | perties   |  |
|                | essment   | ered to have e<br>REACH Articl                      | e/mixture does not contain components consid-<br>endocrine disrupting properties according to<br>e 57(f) or Commission Delegated regulation<br>00 or Commission Regulation (EU) 2018/605 at<br>o r higher. |
| Fur            | ther information  |   |  |
|                | mponents:   |   |  |
|                | valeraldehyde:  |   |  |
|                | narks   | : Solvents may                                      | degrease the skin.   |
| SECTIO         | ON 12: Ecological info                                    | ormation  |  |
| 12.1 To        | kicity  |   |  |
| <u>Co</u>      | mponents:   |   |  |
| Var            | nillin:   |   |  |
| Тох            | cicity to fish  | : LC50 (Pimepl<br>End point: mo<br>Exposure time    |  |
|                |   |   |  |

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|----------------|---|------|---|---|
|                |   |      | Test Type: flow-th<br>Analytical monitor<br>Method: OECD To<br>GLP: yes   | ring: yes   |
|                | city to daphnia and other<br>atic invertebrates | :    | EC50 (Daphnia m<br>End point: Immob<br>Exposure time: 44<br>Test Type: static t<br>Analytical monitor<br>Method: OECD T<br>GLP: yes | 8 h<br>test<br>ring: yes  |
| Toxi<br>plan   | city to algae/aquatic<br>ts                     | :    | EC50 (Pseudokire<br>End point: Growth<br>Exposure time: 72<br>Test Type: static t<br>Method: OECD T<br>GLP: yes                     | 2 h<br>test   |
| 3-Et           | hoxy-4-hydroxybenzald                           | lehy | de:   |   |
| Toxi           | city to fish                                    | :    | LC50 (Pimephale<br>Exposure time: 96<br>Test Type: flow-th<br>Method: OECD T<br>GLP: No informat                                    | nrough test<br>est Guideline 203                                  |
| Toxi<br>plan   | city to algae/aquatic<br>ts                     | :    | EC50 (Pseudokiro<br>mg/l<br>Exposure time: 72<br>Test Type: static t<br>Method: OECD T<br>GLP: yes                                  | test  |
|                |   |      | NOEC (Pseudoki<br>mg/l<br>Exposure time: 72<br>Test Type: static t<br>Method: OECD T<br>GLP: yes                                    | test  |
| Isop           | entyl phenylacetate:                            |      |   |   |
| Toxi           | city to daphnia and other<br>atic invertebrates | :    | End point: Immob<br>Exposure time: 72<br>Test Type: static t  | 2 h   |

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Toxicity to algae/aquatic plants

: EC50 (Desmodesmus subspicatus (green algae)): 7,6 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201

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|--------------------|---|-----|---|---|
| leaval             | valdabyday                              |     |   |   |
|                    | eraldehyde:<br>y to fish                | :   | LC50 (Pimephale<br>Exposure time: 96<br>Test Type: flow-th<br>Method: OECD T<br>GLP: No informat  | nrough test<br>est Guideline 203                                  |
|                    | y to daphnia and other<br>invertebrates | :   | EC50 (Daphnia m<br>Exposure time: 48<br>Test Type: static t<br>Method: OECD To<br>GLP: no   | test  |
| Toxicity<br>plants | y to algae/aquatic                      | :   | EC50 (Desmodes<br>mg/l<br>Exposure time: 72<br>Test Type: static t<br>GLP: no   |   |
| (2-Meth            | hoxymethylethoxy)pr                     | opa | nol:  |   |
| -                  | y to fish                               | :   |   | innow (Pimephales promelas)): > 10.000                            |
|                    | y to daphnia and other<br>invertebrates | :   | EC50 (Daphnia m   | nagna): 1.919 mg/l  |
| Toxicity<br>plants | y to algae/aquatic                      | :   | EC50 (Scenedesr<br>969 mg/l<br>Exposure time: 96  | mus capricornutum (fresh water algae)): ><br>6 h                  |
| 2.2 Persist        | tence and degradabil                    | ity |   |   |
| Compo              | onents:                                 |     |   |   |
| Vanillir           | n:                                      |     |   |   |
| Biodeg             | radability                              | :   | Test Type: MITI T<br>Result: Readily bi<br>Biodegradation: 9<br>Exposure time: 14<br>Method: OECD T   | odegradable.<br>)7 %  |
| 3-Etho             | xy-4-hydroxybenzald                     | ehv | de <sup>.</sup>   |   |
|                    | radability                              | :   | <ul> <li>Test Type: Manometric respiration test<br/>Result: Readily biodegradable.</li> <li>Biodegradation: 84 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD 301F</li> <li>GLP: yes</li> </ul> |   |
| (R)-p-n            | nentha-1,8-diene; d-li                  | moi | nene:   |   |

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|----------------|--|------|--|---|
| Bi             | odegradability                           | :    | Test Type: CO2 I<br>Result: Readily b<br>Biodegradation: 7<br>Exposure time: 2<br>Method: OECD 3<br>GLP: yes | iodegradable.<br>71 %<br>8 d                                      |
| le             | opentyl phenylacetate:                   |      |  |   |
|                | odegradability                           | :    | Test Type: Manon<br>Result: Readily b<br>Biodegradation:<br>Exposure time: 2<br>Method: OECD 3<br>GLP: yes   | 80 %<br>8 d   |
| ls             | ovaleraldehyde:                          |      |  |   |
|                | odegradability                           | :    | Inoculum: activat<br>Result: Not readil<br>Biodegradation:<br>Exposure time: 2<br>Method: OECD 3<br>GLP: yes | ly biodegradable.<br>50 %<br>8 d                                  |
| (2             | -Methoxymethylethoxy)pi                  | opa  | anol:  |   |
| •              | odegradability                           | :    |  | 96 %<br>8 d   |
| 12.3 Bi        | oaccumulative potential                  |      |  |   |
| C              | omponents:                               |      |  |   |
|                | anillin:                                 |      |  |   |
| Pa             | artition coefficient: n-<br>ctanol/water | :    | log Pow: 1,17 (20<br>Remarks: calcula  |   |
| 3-             | Ethoxy-4-hydroxybenzald                  | lehy | /de:   |   |
| Pa             | artition coefficient: n-<br>stanol/water | :    | log Pow: 1,58 (25  | est Guideline 107   |
| ls             | opentyl phenylacetate:                   |      |  |   |
|                | oaccumulation                            | :    | Bioconcentration   | factor (BCF): 46  |
|                | artition coefficient: n-<br>ctanol/water | :    | log Pow: 4,08 (25<br>Method: OECD T<br>GLP: yes  | 5 °C)<br>Test Guideline 117                                       |
|                |  |      | 17 / 22  |   |

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|         |                           |             |                                 |

### Isovaleraldehyde:

| Partition coefficient: n- | : log Pow: 1,5 (25 °C) |
|---------------------------|------------------------|
| octanol/water             | pH: 7                  |
|                           | Method: OECD 117       |
|                           | GLP: yes               |

### (2-Methoxymethylethoxy)propanol:

| Partition coefficient: n- | : | log Pow: 1,01 |
|---------------------------|---|---------------|
| octanol/water             |   |               |

### 12.4 Mobility in soil

#### Components:

#### 3-Ethoxy-4-hydroxybenzaldehyde:

| Distribution among environ- | : | log Koc: 3,092                  |
|-----------------------------|---|---------------------------------|
| mental compartments         |   | Method: OECD Test Guideline 106 |

#### 12.5 Results of PBT and vPvB assessment

#### Product:

|  | Assessment | <ul> <li>This substance/mixture contains no components considered<br/>to be either persistent, bioaccumulative and toxic (PBT), or<br/>very persistent and very bioaccumulative (vPvB) at levels of<br/>0.1% or higher.</li> </ul> |
|--|------------|--|
|--|------------|--|

### 12.6 Endocrine disrupting properties

| Product: |  |
|----------|--|
|          |  |

| Assessment | : The substance/mixture does not contain components consid-<br>ered to have endocrine disrupting properties according to<br>REACH Article 57(f) or Commission Delegated regulation<br>(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at<br>levels of 0.1% or higher. |
|------------|---|
|------------|---|

#### 12.7 Other adverse effects

#### Product:

| Additional ecological infor- | : | An environmental hazard cannot be excluded in the event of |
|------------------------------|---|--|
| mation                       |   | unprofessional handling or disposal.                       |
|                              |   | Harmful to aquatic life with long lasting effects.         |

### Components:

### Vanillin:

| Additional ecological infor- | : | An environmental hazard cannot be excluded in the event of |
|------------------------------|---|--|
| mation                       |   | unprofessional handling or disposal.                       |

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|--|---------------------------|-----------------------|---|--|--|
|  | leraldehyde:              |                       |   |  |  |
| Additional ecological infor-<br>mation |                           | unprofession          | <ul> <li>An environmental hazard cannot be excluded in the event of<br/>unprofessional handling or disposal.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul> |  |  |
| SECTION                                | 13: Disposal cons         | iderations            |   |  |  |
| 13.1 Wast                              | e treatment methods       |                       |   |  |  |
| Produ                                  | uct                       | courses or th         | minate ponds, waterways or ditches with chemi-  |  |  |

|           | Send to a licensed waste management company. |  |
|-----------|--|--|
| packaging | : Dispose of as unused product.              |  |

| Contaminated packaging | : | Dispose of as unused product.<br>Empty containers should be taken to an approved waste han-<br>dling site for recycling or disposal.<br>Do not re-use empty containers. |
|------------------------|---|---|
|------------------------|---|---|

### **SECTION 14: Transport information**

### 14.1 UN number or ID number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

Orange, sweet, ext. (Number on list

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| ersion<br>.0 | Revision Date: 27.04.2022                                  | SDS<br>9066 | Number:<br>605  |  | f last issue: 27.03.2022<br>f first issue: 27.03.2022  |
|--------------|--|-------------|---|--|--|
|              |  |             |   |  | 40, 3)<br>Isopentyl phenylacetate (Number on<br>list 3)<br>2,3,5-Trimethylpyrazine (Number on<br>list 40, 3)<br>Isovaleraldehyde (Number on list 40,<br>3) |
|              | CH - Candidate List of<br>ern for Authorisation ( <i>i</i> |             |   | h :                                      | Not applicable   |
|              | CH - List of substances<br>ex XIV)                         | s subjec    | t to authorisatior  | ו :                                      | Not applicable   |
|              | so III: Directive 2012/1<br>-accident hazards invo         | olving d    |   |  | nt and of the Council on the control of  |
| Water<br>ny) | hazard class (Germa  |             | NGK 2 obviously<br>Classification acc   |  | ous to water<br>o AwSV, Annex 1 (5.2)  |
| TA Lu        | ft List (Germany)  |             | Fotal dust:<br>Not applicable<br>norganic substa<br>Not applicable<br>norganic substa<br>Not applicable<br>Organic Substan<br>portion Class 1: (<br>Carcinogenic sub<br>Not applicable<br>Mutagenic:<br>Not applicable<br>Foxic to reproduc | nces in v<br>ices:<br>0,05 %<br>ostances | apour or gaseous form:   |
| Volati       | le organic compounds                                       | 5 : I<br>6  | emissions (integi   | rated pol                                | 24 November 2010 on industrial<br>lution prevention and control)<br>ids (VOC) content: 79,25 %   |

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

No data available

according to Regulation (EC) No. 1907/2006

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### **SECTION 16: Other information**

| Full text of H-Statements        |  |                |  |  |  |
|----------------------------------|--|----------------|--|--|--|
| H225                             | ghly flammable liquid and vapour.  |                |  |  |  |
| H226                             | ammable liquid and vapour.   |                |  |  |  |
| H304                             | ay be fatal if swallowed and enters airways.   |                |  |  |  |
| H315                             | auses skin irritation.   |                |  |  |  |
| H317                             | ay cause an allergic skin reaction.  |                |  |  |  |
| H319                             | auses serious eye irritation.  |                |  |  |  |
| H335                             | ay cause respiratory irritation.   |                |  |  |  |
| H400                             | ery toxic to aquatic life.   |                |  |  |  |
| H410                             | ery toxic to aquatic life with long lasting effects                                      | 3.             |  |  |  |
| H411                             | oxic to aquatic life with long lasting effects.  |                |  |  |  |
| Full text of other abbreviations |  |                |  |  |  |
| Aquatic Acute                    | nort-term (acute) aquatic hazard   |                |  |  |  |
| Aquatic Chronic                  | ong-term (chronic) aquatic hazard  |                |  |  |  |
| Asp. Tox.                        | spiration hazard   |                |  |  |  |
| Eye Irrit.                       | ye irritation  |                |  |  |  |
| Flam. Liq.                       | ammable liquids  |                |  |  |  |
| Skin Irrit.                      | kin irritation   |                |  |  |  |
| Skin Sens.                       | kin sensitisation  |                |  |  |  |
| STOT SE                          | becific target organ toxicity - single exposure  |                |  |  |  |
| 91/322/EEC                       | urope. Commission Directive 91/322/EEC on dicative limit values                          | establishing   |  |  |  |
| DE TRGS 900                      | ermany. TRGS 900 - Occupational exposure   | limit values.  |  |  |  |
| DFG                              | enate commission for the review of compound  | ls at the work |  |  |  |
|                                  | ace dangerous for the health (MAK-commissi   |                |  |  |  |
| EU SCOEL                         | U. Scientific Committee on Occupational Expo<br>alues (SCOELs), European Commission - SC |                |  |  |  |
|                                  | nended   |                |  |  |  |
| 91/322/EEC / TWA                 | me weighted average  |                |  |  |  |
| DE TRGS 900 / AGW                | xposure limit(s):  |                |  |  |  |
| DFG / MAK                        | aximum allowable concentration:  |                |  |  |  |
| EU SCOEL / TWA                   | me weighted average  |                |  |  |  |

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: AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - Interna- tional Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a

according to Regulation (EC) No. 1907/2006

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test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL -International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

| Classification of the mixture: |      | Classification procedure: |
|--------------------------------|------|---------------------------|
| Eye Irrit. 2                   | H319 | Calculation method        |
| Skin Sens. 1                   | H317 | Calculation method        |
| Aquatic Chronic 3              | H412 | Calculation method        |

#### Further Information

The data contained in this Safety Data Sheet is accurate to the best knowledge of Candle Supply Pty Ltd, applies to the product as supplied Candle Supply Pty Ltd, and does not relate to use in combination with any other material or in any process. Data and information is furnished without warranty expressed or implied, nor does Candle Supply Pty Ltd, assume responsibility for use or reliance upon this data.

This SDS is current to the date listed above. However, the GHS classifications may change due to hazard communication updates by the overseeing governing body. For the most current SDS information please contact customerservice@candlesupply.com.au