# HOME FRAGRANCE ITALIA S.R.L.

a socio unico – Società soggetta a direzione e coordinamento di
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# SAFETY DATA SHEET

**Issue Date** 26-Aug-2019 **Revision Date** 03-Aug-2018 **Version** 8

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Trade name / designation** **Fragrance Diffuser OXYGEN** MI
Product Code 41DDOX
*Product Name* ZONA DIFFUSORE A STICK 250ml OXYGEN

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

**Recommended Use** Consumer use

**Uses advised against** No information available

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

**Supplier**
Newell Brands Home Fragrance Italia srl
Via Tonale, 26
20125 Milano Italia
Tel: +39 039 9220979 ; Fax: 39 039 9220943
info@millefiorimilano.com
http://www.millefiorimilano.com/

For further information, please contact

**E-mail address** info@millefiorimilano.com

### 1.4. Emergency telephone number

| **Emergency Telephone - §45 - (EC)1272/2008** | |
|---|---|
| **Europe** | **008 008 658 8466** |

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*

| | |
|---|---|
| **Serious eye damage/eye irritation** | Category 2 - (H319) |
| **Skin sensitization** | Category 1A - (H317) |
| **Chronic aquatic toxicity** | Category 2 - (H411) |
| **Flammable liquids** | Category 2 - (H225) |

### 2.2. Label elements

Contains Isocyclemone E, Lyral, Isoeugenol

**Danger**
Causes serious eye irritation
May cause an allergic skin reaction
Toxic to aquatic life with long lasting effects
Highly flammable liquid and vapor

Keep out of reach of children
IF ON SKIN: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Store in a well-ventilated place. Keep container tightly closed
Dispose of contents/containers in accordance with local regulations

Contains Ethanone, 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-, 1-(1,2,3,4,6,7,8,8a-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Limonene, 4H-Inden-4-one, 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-, Linalyl acetate, Methylenedioxyphenyl Methylpropanal, Linalool, Lilial, Eugenol, Geranyl acetate, Citronellol, trans-Rose Ketone-1, beta-Pinene, Cyclohexanemethanol, 4-(1-methylethyl)-, cis-, 2,6-Octadien-1-ol, 3,7-dimethyl-, 1-acetate, (2Z)-, 1,4-Methanonaphthalen-6(2H)-one, octahydro-7-methyl-, Benzoic acid, 2,4-dihydroxy-3,6-dimethyl-, methyl ester, Citral, Acetylcedrene, Methoxyhydratropaldehyde, 2,4-Dimethyl-3-cyclohexene carboxaldehyde May produce an allergic reaction

### 2.3. Other hazards
None known

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2

| Chemical Name | EC No | CAS No | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|---|
| Ethanol | 200-578-6 | 64-17-5 | >=50% | Flam. Liq. 2 (H225)<br>Eye Irrit. 2 (H319) |
| Propanol, oxybis- | 246-770-3 | 25265-71-8 | >=10 <20% | Not Classified |
| Isocyclemone E | 259-174-3 | 54464-57-2 | >=1 <3% | Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Aquatic Chronic 1 (H410) |
| 2,6-DIMETHYL-7-OCTEN-2-OL | 242-362-4 | 18479-58-8 | >=1 <3% | Flam. Liq. 4 (H227)<br>Acute Tox. 5 (H303)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2A (H319)<br>Aquatic Acute 3 (H402) |
| Diethyl phthalate | 201-550-6 | 84-66-2 | >=0.1 <1% | Skin Irrit. 3 (H316)<br>Aquatic Acute 3 (H402) |
| Oxacyclohexadec-12-en-2-one, (12E)- | | 111879-80-2 | >=0.1 <1% | Aquatic Acute 1 (H400)<br>Aquatic Chronic 2 (H411) |
| Ethanone, 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)- | 268-978-3 | 68155-66-8 | >=0.1 <1% | Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Aquatic Acute 2 (H401)<br>Aquatic Chronic 1 (H410) |
| Cyclopenta[g]-2-benzopyran, 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethyl- | 214-946-9 | 1222-05-5 | >=0.1 <1% | Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |
| 1-(1,2,3,4,6,7,8,8a-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one | 268-979-9 | 68155-67-9 | >=0.1 <1% | Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Aquatic Acute 2 (H401) |

| | | | | |
|---|---|---|---|---|
| | | | | Aquatic Chronic 1 (H410) |
| Limonene | 227-813-5 | 5989-27-5 | >=0.1 <1% | Flam. Liq. 3 (H226)<br>Asp. Tox. 1 (H304)<br>Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |
| Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)- | 216-133-4 | 1506-02-1 | >=0.1 <1% | Acute Tox. 4 (H302)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |
| Lilial | 201-289-8 | 80-54-6 | >=0.1 <1% | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Repr. 2 (H361)<br>Aquatic Chronic 3 (H412) |
| 4H-Inden-4-one, 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl- | 251-649-3 | 33704-61-9 | >=0.1 <1% | Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Eye Irrit. 2 (H319)<br>Aquatic Chronic 2 (H411) |
| Lyral | 250-863-4 | 31906-04-4 | >=0.1 <1% | Skin Sens. 1A (H317) |
| Linalyl acetate | 204-116-4 | 115-95-7 | >=0.1 <1% | Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317) |
| Linalool | 201-134-4 | 78-70-6 | >=0.1 <1% | Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Eye Irrit. 2 (H319) |
| Methylenedioxyphenyl Methylpropanal | 214-881-6 | 1205-17-0 | >=0.1 <1% | Skin Sens. 1B (H317)<br>Repr. 2 (H361)<br>Aquatic Chronic 2 (H411) |
| Eugenol | 202-589-1 | 97-53-0 | >=0.1 <1% | Skin Sens. 1B (H317)<br>Eye Irrit. 2 (H319) |
| Isoeugenol | 202-590-7 | 97-54-1 | >=0.1 <1% | Acute Tox. 4 (H302)<br>Acute Tox. 4 (H312)<br>Skin Irrit. 2 (H315)<br>Skin Sens. 1A (H317)<br>Eye Irrit. 2 (H319)<br>Acute Tox. 4 (H332)<br>STOT SE 3 (H335) |
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | 204-881-4 | 128-37-0 | >=0.1 <1% | Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |
| Acetylcedrene | 251-020-3 | 32388-55-9 | >=0.1 <1% | par Skin Sens. 1B (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |
| Cyclohexanemethanol, 4-(1-methylethyl)-, cis- | 237-539-8 | 13828-37-0 | >=0.1 <1% | Skin Sens. 1B (H317) |
| beta-Pinene | 204-872-5 | 127-91-3 | >=0.1 <1% | Flam. Liq. 3 (H226)<br>Asp. Tox. 1 (H304)<br>Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |
| Benzoic acid, 2,4-dihydroxy-3,6-dimethyl-, methyl ester | 225-193-0 | 4707-47-5 | >=0.1 <1% | Skin Sens. 1B (H317) |
| Methoxyhydratropaldehyde | 226-749-5 | 5462-06-6 | >=0.1 <1% | Skin Sens. 1B (H317) |
| Citronellol | 203-375-0 | 106-22-9 | >=0.1 <1% | Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Eye Irrit. 2 (H319) |
| 2,4-Dimethyl-3-cyclohexene carboxaldehyde | 268-264-1 | 68039-49-6 | >=0.1 <1% | Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Eye Irrit. 2 (H319)<br>Aquatic Chronic 2 (H411) |
| trans-Rose Ketone-1 | 246-430-4 | 24720-09-0 | >=0.1 <1% | Acute Tox. 4 (H302)<br>Skin Sens. 1B (H317)<br>Aquatic Acute 2 (H401)<br>Aquatic Chronic 2 (H411) |
| Citral | 226-394-6 | 5392-40-5 | >=0.1 <1% | Skin Irrit. 2 (H315)<br>Skin Sens. 1 (H317) |

| | | | | |
|---|---|---|---|---|
| | | | | Eye Irrit. 2 (H319) |
| 2,6-Octadien-1-ol, 3,7-dimethyl-, 1-acetate, (2Z)- | 205-459-2 | 141-12-8 | >=0.1 <1% | Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317) |
| Geranyl acetate | 203-341-5 | 105-87-3 | >=0.1 <1% | Skin Irrit. 2 (H315)<br>Skin Sens. 1 (H317)<br>Aquatic Chronic 3 (H412) |
| 1,4-Methanonaphthalen-6(2H)-one, octahydro-7-methyl- | 255-517-6 | 41724-19-0 | >=0.1 <1% | Acute Tox. 4 (H302)<br>Acute Tox. 4 (H312)<br>Skin Sens. 1B (H317)<br>Aquatic Acute 3 (H402)<br>Aquatic Chronic 3 (H412) |
| ALPHA-CEDRENE | 207-418-4 | 469-61-4 | >=0.1 <1% | Asp. Tox. 1 (H304)<br>Skin Irrit. 3 (H316)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |
| t-Butyl Alcohol | 200-889-7 | 75-65-0 | >=0.1 <1% | Flam. Liq. 2 (H225)<br>Eye Irrit. 2 (H319)<br>Acute Tox. 4 (H332)<br>STOT SE 3 (H335) |
| alpha-Pinenes | 201-291-9 | 80-56-8 | >=0.01 <0.1% | Flam. Liq. 3 (H226)<br>Acute Tox. 4 (H302)<br>Asp. Tox. 1 (H304)<br>Skin Irrit. 2 (H315)<br>Skin Sens. 1B (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |

**Full text of H- and EUH-phrases: see section 16**

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General advice** Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**Inhalation** Remove to fresh air. If symptoms persist, call a physician.

**Skin Contact** Wash off immediately with plenty of water. Wash off immediately with soap and plenty of water.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required. Rinse mouth.

**Self-protection of the first aider** Remove all sources of ignition.

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

**Symptoms** None known.

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

**Note to physicians** May cause sensitization of susceptible persons.

## Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**
No information available

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

In the event of fire and/or explosion do not breathe fumes May cause sensitization by inhalation and skin contact Thermal decomposition can lead to release of irritating and toxic gases and vapors

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

## Section 6: ACCIDENTAL RELEASE MEASURES

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

**Personal precautions**
Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.

**For emergency responders**
Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

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

| | |
|---|---|
| **Methods for containment** | Prevent further leakage or spillage if safe to do so. |
| **Methods for cleaning up** | Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Soak up with inert absorbent material. |
| **Prevention of secondary hazards** | Clean contaminated objects and areas thoroughly observing environmental regulations. |

**6.4. Reference to other sections**

See Section 12: ECOLOGICAL INFORMATION.

## Section 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

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

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place.

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

To avoid risks to human health and the environment, comply with the instructions for use.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

| Chemical Name | European Union | United Kingdom | France | Spain | Germany |
|---|---|---|---|---|---|
| Ethanol<br>64-17-5 | | STEL: 3000 ppm<br>STEL: 5760 mg/m³<br>TWA: 1000 ppm<br>TWA: 1920 mg/m³ | TWA: 1000 ppm<br>TWA: 1900 mg/m³<br>STEL: 5000 ppm<br>STEL: 9500 mg/m³ | STEL: 1000 ppm<br>STEL: 1910 mg/m³ | TWA: 500 ppm<br>TWA: 960 mg/m³<br>Ceiling / Peak: 1000 ppm<br>Ceiling / Peak: 1920 mg/m³<br>Skin |
| Propanol, oxybis-<br>25265-71-8 | | | | | TWA: 100 mg/m³<br>Ceiling / Peak: 200 mg/m³ |
| Diethyl phthalate<br>84-66-2 | | STEL: 10 mg/m³<br>TWA: 5 mg/m³ | TWA: 5 mg/m³ | TWA: 5 mg/m³ | |
| (R)-p-mentha-1,8-diene<br>5989-27-5 | | | TWA: 1000 mg/m³<br>STEL: 1500 mg/m³ | | TWA: 5 ppm<br>TWA: 28 mg/m³<br>Ceiling / Peak: 20 ppm<br>Ceiling / Peak: 112 mg/m³<br>Skin |
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-<br>128-37-0 | | STEL: 30 mg/m³<br>TWA: 10 mg/m³ | TWA: 10 mg/m³ | TWA: 10 mg/m³ | TWA: 10 mg/m³<br>Ceiling / Peak: 40 mg/m³<br>Skin |
| Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-<br>127-91-3 | | | TWA: 1000 mg/m³<br>STEL: 1500 mg/m³ | TWA: 20 ppm<br>TWA: 113 mg/m³ | |
| 2,6-Octadienal, 3,7-dimethyl-<br>5392-40-5 | | | | S*<br>TWA: 5 ppm | |
| t-Butyl Alcohol<br>75-65-0 | | STEL: 150 ppm<br>STEL: 462 mg/m³<br>TWA: 100 ppm<br>TWA: 308 mg/m³ | TWA: 100 ppm<br>TWA: 300 mg/m³ | TWA: 100 ppm<br>TWA: 308 mg/m³ | TWA: 20 ppm<br>TWA: 62 mg/m³<br>Ceiling / Peak: 80 ppm<br>Ceiling / Peak: 248 mg/m³ |
| Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-<br>80-56-8 | | | TWA: 1000 mg/m³<br>STEL: 1500 mg/m³ | TWA: 20 ppm<br>TWA: 113 mg/m³ | |
| **Chemical Name** | **Italy** | **Portugal** | **Netherlands** | **Finland** | **Denmark** |
| Ethanol<br>64-17-5 | | TWA: 1000 ppm | Skin<br>STEL: 1900 mg/m³<br>TWA: 260 mg/m³ | TWA: 1000 ppm<br>TWA: 1900 mg/m³<br>STEL: 1300 ppm<br>STEL: 2500 mg/m³ | TWA: 1000 ppm<br>TWA: 1900 mg/m³ |
| Diethyl phthalate<br>84-66-2 | | TWA: 5 mg/m³ | | TWA: 5 mg/m³<br>STEL: 10 mg/m³ | TWA: 3 mg/m³ |
| (R)-p-mentha-1,8-diene<br>5989-27-5 | | | | TWA: 25 ppm<br>TWA: 140 mg/m³<br>STEL: 50 ppm<br>STEL: 280 mg/m³ | |
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-<br>128-37-0 | | TWA: 2 mg/m³ | | TWA: 10 mg/m³<br>STEL: 20 mg/m³ | TWA: 10 mg/m³ |
| Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-<br>127-91-3 | | TWA: 20 ppm | | | |
| t-Butyl Alcohol<br>75-65-0 | | TWA: 100 ppm | | TWA: 50 ppm<br>TWA: 150 mg/m³<br>STEL: 75 ppm | Ceiling: 50 ppm<br>Ceiling: 150 mg/m³<br>Skin |

| | | | | | |
|---|---|---|---|---|---|
| | | | | STEL: 230 mg/m³<br>Skin | |
| Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-<br>80-56-8 | | TWA: 20 ppm | | | |

| Chemical Name | Austria | Switzerland | Poland | Norway | Ireland | Czech Republic |
|---|---|---|---|---|---|---|
| Ethanol<br>64-17-5 | STEL 2000 ppm<br>STEL 3800 mg/m³<br>TWA: 1000 ppm<br>TWA: 1900 mg/m³ | STEL: 1000 ppm<br>STEL: 1920 mg/m³<br>TWA: 500 ppm<br>TWA: 960 mg/m³ | TWA: 1900 mg/m³ | TWA: 500 ppm<br>TWA: 950 mg/m³<br>STEL: 625 ppm<br>STEL: 1187.5 mg/m³ | STEL: 1000 ppm | Ceiling: 3000 mg/m³<br>TWA: 1000 mg/m³ |
| Propanol, oxybis-<br>25265-71-8 | | STEL: 280 mg/m³<br>TWA: 140 mg/m³ | | | | |
| Diethyl phthalate<br>84-66-2 | STEL 5 mg/m³<br>TWA: 3 mg/m³ | TWA: 5 mg/m³ | STEL: 15 mg/m³<br>TWA: 5 mg/m³ | TWA: 3 mg/m³<br>STEL: 6 mg/m³ | TWA: 5 mg/m³<br>STEL: 10 mg/m³ | |
| (R)-p-mentha-1,8-diene<br>5989-27-5 | | STEL: 14 ppm<br>STEL: 80 mg/m³<br>TWA: 7 ppm<br>TWA: 40 mg/m³ | | TWA: 25 ppm<br>TWA: 140 mg/m³<br>STEL: 37.5 ppm<br>STEL: 175 mg/m³ | | |
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-<br>128-37-0 | TWA: 10 mg/m³ | STEL: 40 mg/m³<br>TWA: 10 mg/m³ | | | TWA: 10 mg/m³<br>STEL: 30 mg/m³ | |
| Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-<br>127-91-3 | | | | TWA: 25 ppm<br>TWA: 140 mg/m³<br>STEL: 37.5 ppm<br>STEL: 175 mg/m³ | | |
| 2,6-Octadienal, 3,7-dimethyl-<br>5392-40-5 | | | STEL: 54 mg/m³<br>TWA: 27 mg/m³ | | | |
| t-Butyl Alcohol<br>75-65-0 | Skin<br>STEL 80 ppm<br>STEL 248 mg/m³<br>TWA: 20 ppm<br>TWA: 62 mg/m³ | STEL: 80 ppm<br>STEL: 240 mg/m³<br>TWA: 20 ppm<br>TWA: 60 mg/m³ | STEL: 450 mg/m³<br>TWA: 300 mg/m³ | Skin<br>Ceiling: 25 ppm<br>Ceiling: 75 mg/m³ | TWA: 100 ppm<br>TWA: 300 mg/m³<br>STEL: 150 ppm<br>STEL: 450 mg/m³ | Ceiling: 600 mg/m³<br>TWA: 300 mg/m³<br>Skin |
| Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-<br>80-56-8 | | | | TWA: 25 ppm<br>TWA: 140 mg/m³<br>Skin<br>STEL: 37.5 ppm<br>STEL: 175 mg/m³ | | |

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Antistatic footwear. Wear fire/flame resistant/retardant clothing. Gloves made of plastic or rubber.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

**Physical state** liquid

**Appearance**

**Color** colorless

**Odor** Characteristic

**Odor threshold** No information available

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | | Not Applicable |
| **Melting point/freezing point** | | No information available |
| **Boiling point / boiling range** | >= 78 °C | |
| **Flash point** | >= 13 °C | |
| **Evaporation rate** | | No information available |
| **Flammability (solid, gas)** | | No information available |
| **Flammability Limit in Air** | | |
| **Upper flammability limit:** | | No information available |
| **Lower flammability limit:** | | No information available |
| **Vapor Pressure @20°C (kPa)** | No information available | No information available |
| **Vapor density** | | No information available |
| **Specific Gravity** | | No information available |
| **Water solubility** | Miscible in water | |
| **Solubility(ies)** | | No information available |
| **Partition coefficient** | | No information available |
| **Autoignition temperature** | | No information available |
| **Decomposition temperature** | | No information available |
| **Kinematic viscosity** | | No information available |
| **Dynamic viscosity** | | No information available |
| **Explosive properties** | No information available | |
| **Oxidizing properties** | No information available | |

**9.2. Other information**

| | |
|---|---|
| **Softening point** | No information available |
| **Molecular weight** | Not Applicable |
| **VOC Content (%)** | 92.48 |
| **Density** | No information available |
| **Bulk density** | No information available |

## Section 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

Explosion data

| | |
|---|---|
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | None. |

**10.3. Possibility of hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

Heat, flames and sparks.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

None under normal use conditions.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

**Product information**
Product does not present an acute toxicity hazard based on known or supplied information.

**Unknown Acute Toxicity** 5.32% of the mixture consists of ingredient(s) of unknown toxicity.

**The following values are calculated based on chapter 3.1 of the GHS document** mg/kg

**Component Information**

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Ethanol | = 7060 mg/kg ( Rat ) | | = 124.7 mg/L ( Rat ) 4 h |
| Diethyl phthalate | = 8600 mg/kg ( Rat ) | > 11200 mg/kg ( Rat ) | > 4.64 mg/L ( Rat ) 6 h |
| (R)-p-mentha-1,8-diene | = 5200 mg/kg ( Rat ) = 4400 mg/kg ( Rat ) | > 5 g/kg ( Rabbit ) | |
| Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- | = 4700 mg/kg ( Rat ) > 5000 mg/kg ( Rat ) | > 5000 mg/kg ( Rabbit ) | |
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | > 2930 mg/kg ( Rat ) | > 2000 mg/kg ( Rat ) | |
| 2,6-Octadienal, 3,7-dimethyl- | = 4960 mg/kg ( Rat ) | = 2250 mg/kg ( Rabbit ) | |
| t-Butyl Alcohol | = 2200 mg/kg ( Rat ) | > 2 g/kg ( Rabbit ) | > 10000 ppm ( Rat ) 4 h |
| Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl- | = 3700 mg/kg ( Rat ) | > 5000 mg/kg ( Rat ) | |

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** Contact with eyes may cause irritation.

**Sensitization** Repeated or prolonged contact may cause allergic reactions in very susceptible persons.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organ Effects** blood, Central nervous system, Eyes, liver, Reproductive System, Respiratory system, Skin.

**Aspiration hazard** No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

92.16% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| Ethanol | | 12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through | 9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static |
| Propanol, oxybis- | | 5000: 24 h Carassius auratus mg/L LC50 static | |
| Diethyl phthalate | 23: 72 h Desmodesmus subspicatus | 16.8: 96 h Pimephales promelas | 86: 48 h Daphnia magna mg/L |

| | | | |
|---|---|---|---|
| | mg/L EC50 21: 96 h Desmodesmus subspicatus mg/L EC50 21: 96 h Desmodesmus subspicatus mg/L EC50 static 2.11 - 4.29: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 42 - 255: 72 h Pseudokirchneriella subcapitata mg/L EC50 23: 72 h Desmodesmus subspicatus mg/L EC50 static | mg/L LC50 static 16.7: 96 h Lepomis macrochirus mg/L LC50 static 17: 96 h Pimephales promelas mg/L LC50 flow-through 22: 96 h Lepomis macrochirus mg/L LC50 flow-through 12: 96 h Oncorhynchus mykiss mg/L LC50 flow-through | EC50 Static 36 - 74: 48 h Daphnia magna mg/L EC50 |
| (R)-p-mentha-1,8-diene | | 35: 96 h Oncorhynchus mykiss mg/L LC50 0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through | |
| Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- | | 2.2 - 4.6: 96 h Brachydanio rerio mg/L LC50 static | 10.7: 48 h Daphnia magna mg/L EC50 |
| 1,6-Octadien-3-ol, 3,7-dimethyl- | 88.3: 96 h Desmodesmus subspicatus mg/L EC50 | 22 - 46: 96 h Leuciscus idus mg/L LC50 static | 20: 48 h Daphnia magna mg/L EC50 |
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | 6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50 | 5: 48 h Oryzias latipes mg/L LC50 | |
| 2,6-Octadienal, 3,7-dimethyl- | 19: 96 h Desmodesmus subspicatus mg/L EC50 16: 72 h Desmodesmus subspicatus mg/L EC50 | 4.6 - 10: 96 h Leuciscus idus mg/L LC50 static | 7: 48 h Daphnia magna mg/L EC50 |
| t-Butyl Alcohol | 1000: 72 h Desmodesmus subspicatus mg/L EC50 | 6130 - 6700: 96 h Pimephales promelas mg/L LC50 flow-through | 4607 - 6577: 48 h Daphnia magna mg/L EC50 Static 933: 48 h Daphnia magna mg/L EC50 |
| Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl- | | 0.28: 96 h Pimephales promelas mg/L LC50 static | 41: 48 h Daphnia magna mg/L LC50 |

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

| Chemical Name | Partition coefficient |
|---|---|
| Ethanol | -0.32 |
| Diethyl phthalate | 2.35 |
| Ethanone, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthalenyl)- | 4.6 |
| Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- | 4.2 |
| 1,6-Octadien-3-ol, 3,7-dimethyl- | 2.84 - 3.1 |
| Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- | 4.17 |
| 2,6-Octadienal, 3,7-dimethyl- | 2.76 |
| t-Butyl Alcohol | 0.35 |
| Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl- | 4.1 |

### 12.4. Mobility in soil

**Mobility in soil**
No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available

| Chemical Name | EU - Endocrine Disrupters Candidate List | EU - Endocrine Disruptors - Evaluated Substances | Endocrine disrupting potential |
|---|---|---|---|
| Diethyl phthalate | Group III Chemical | | |

## Section 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods**

| | |
|---|---|
| **Waste from Residues / Unused Products** | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| **Contaminated packaging** | Improper disposal or reuse of this container may be dangerous and illegal. |
| **Other Information** | Waste codes should be assigned by the user based on the application for which the product was used. |

## Section 14: TRANSPORT INFORMATION

**IMDG**

| | |
|---|---|
| **UN/ID No.** | 1266 |
| **Proper shipping name** | Perfumery products with flammable solvents |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **EmS-No** | F-E, S-D |
| **Special Provisions** | 163 |
| **Marine pollutant** | Marine pollutant |

**RID**

| | |
|---|---|
| **UN/ID No.** | 1266 |
| **Proper shipping name** | Perfumery products with flammable solvents |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **Environmental hazard** | Yes |

**ADR**

| | |
|---|---|
| **UN/ID No.** | 1266 |
| **Proper shipping name** | Perfumery products with flammable solvents |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **Environmental hazard** | Yes |

**ICAO (air)**

| | |
|---|---|
| **UN/ID No.** | 1266 |
| **Proper shipping name** | Perfumery products with flammable solvents |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **Special Provisions** | A3 |
| **Environmental hazard** | Yes |

**IATA**

| | |
|---|---|
| **UN/ID No.** | 1266 |
| **Proper shipping name** | Perfumery products with flammable solvents |
| **Hazard Class** | 3 |
| **Packing Group** | II |
| **Special Provisions** | A3 |
| **Environmental hazard** | Yes |

## Section 15: REGULATORY INFORMATION

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

| Chemical Name | French RG number | Title |
|---|---|---|

| | | |
|---|---|---|
| Ethanol<br>64-17-5 | RG 84 | |
| (R)-p-mentha-1,8-diene<br>5989-27-5 | RG 84 | |
| t-Butyl Alcohol<br>75-65-0 | RG 84 | |

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**International Inventories**

| | |
|---|---|
| **TSCA** | Complies |
| **DSL/NDSL** | Complies |
| **EINECS/ELINCS** | Complies |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
**AICS** - Australian Inventory of Chemical Substances

**15.2. Chemical safety assessment**

No information available

## Section 16: OTHER INFORMATION

**Full text of H-Statements referred to under sections 2 and 3**
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H412 - Harmful to aquatic life with long lasting effects
H319 - Causes serious eye irritation
H400 - Very toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects
H361 - Suspected of damaging fertility or the unborn child if inhaled
H410 - Very toxic to aquatic life with long lasting effects
H226 - Flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H302 - Harmful if swallowed
H227 - Combustible liquid
H303 - May be harmful if swallowed
H402 - Harmful to aquatic life
H401 - Toxic to aquatic life
H312 - Harmful in contact with skin
H316 - Causes mild skin irritation
H225 - Highly flammable liquid and vapor
H332 - Harmful if inhaled
H335 - May cause respiratory irritation

**Classification procedure**
Classification according to calculation method of the CLP regulation.

**Key literature references and sources for data**
IFRA-IOFI Labelling Manual, RIFM/FEMA database, Supplier Information

**Issue Date** 26-Aug-2019

**Revision Date** 03-Aug-2018

**Revision Note** Not Applicable.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**
This document was prepared to the requirements of the jurisdiction specified in Section 2 above and may not meet regulatory requirements in other countries. The information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**End of Safety Data Sheet**