

# Tangerine essential oil

## Safety Data Sheet

### SECTION 1: Identification

#### 1.1. Identification

Product form : Substance  
Substance name : Tangerine Oil  
CAS No : 8016-85-1

#### 1.2. Recommended use and restrictions on use

Recommended use : Ingredient used in Flavors and Fragrances.

#### 1.3. Supplier

Camden-Grey Essential Oils, Inc.  
5751 Halifax Ave., Unit 2  
Fort Myers, FL 33912  
[www.camdengrey.com](http://www.camdengrey.com)

#### 1.4. Emergency telephone number

Emergency number : Chemtrec -1.800.424.9300/ 1.703.527.3887 CCN330

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

|   |  |
|---|--|
| Flammable liquids, Category 3                                     | Flammable liquid and vapour                          |
| Skin corrosion/irritation, Category 2                             | Causes skin irritation                               |
| Sensitisation — Skin, category 1                                  | May cause an allergic skin reaction                  |
| Aspiration hazard, Category 1                                     | May be fatal if swallowed and enters airways         |
| Hazardous to the aquatic environment — Chronic Hazard, Category 1 | Very toxic to aquatic life with long lasting effects |

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

Flammable liquid and vapour  
May be fatal if swallowed and enters airways  
Causes skin irritation  
May cause an allergic skin reaction  
Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep container tightly closed  
Ground/Bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting/... equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Avoid breathing dust/fume/gas/mist/vapours/spray  
Wash ... thoroughly after handling  
Contaminated work clothing must not be allowed out of the workplace  
Avoid release to the environment  
Wear protective gloves/protective clothing/eye protection/face protection  
If swallowed: Immediately call a poison center/doctor/...  
If on skin: Wash with plenty of water/...  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
Specific treatment (see ... on this label)

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Do NOT induce vomiting  
If skin irritation occurs: Get medical advice/attention  
If skin irritation or rash occurs: Get medical advice/attention  
Take off contaminated clothing and wash it before reuse  
Wash contaminated clothing before reuse  
In case of fire: Use ... to extinguish  
Collect spillage  
Store in a well-ventilated place. Keep cool  
Store locked up  
Dispose of contents/container to ...

## 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Can cause dry skin.

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : Tangerine Oil  
CAS No : 8016-85-1

| Name                   | Product identifier | %        | GHS-US classification   |
|------------------------|--------------------|----------|---|
| (R)-P-Mentha-1,8-Diene | (CAS No) 5989-27-5 | 50 - 100 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| Hydrocarbons           |                    | 50 - 100 | Asp. Tox. 1, H304   |
| G-TERPINENE            | (CAS No) 99-85-4   | 2.5 - 10 | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304   |
| MYRCENE                | (CAS No) 123-35-3  | 2.5 - 10 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Asp. Tox. 1, H304                               |

Full text of classification categories and H statements : see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : NEVER induce swallowing in an unconscious person. As a general rule, in case of doubt or if symptoms persist, always call a doctor.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Watch out for any remaining product between skin and clothing, watches, shoes, etc. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital. In the event of an allergic reaction, seek medical attention.

First-aid measures after eye contact : Wash thoroughly with soft, clean water for 15 minutes holding eye lids open.

First-aid measures after ingestion : Do not give patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with lukewarm water and consult a doctor. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/injuries after inhalation : Exposure to vapours from this solvent in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms/injuries after skin contact : May cause an allergic skin reaction. May cause irreversible damage to skin: namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Symptoms/injuries after eye contact : Splashes in the eyes may cause irritation and reversible local damage.

Symptoms/injuries after ingestion : Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration. May be harmful if swallowed.

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## 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : ABC-powder. BC-powder. Carbon dioxide. Foam. Halons. Water with AFFF (Aqueous Film Forming Foam) additive.

Unsuitable extinguishing media : Water Jet.

### 5.2. Specific hazards arising from the chemical

Fire hazard : A fire will often produce a thick black smoke. Do not breathe smoke. Exposure to decomposition products may be hazardous to health.

Reactivity : In the event of a fire, carbon monoxide can be formed. In the event of a fire, carbon dioxide may be formed.

### 5.3. Special protective equipment and precautions for fire-fighters

No additional information available

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

#### 6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment.

### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Do not allow to enter drains or water courses. If spillage occurs on the public highway, indicate the danger and notify the authorities (police, fire brigade). Use drums to dispose of collected waste in compliance with current regulations.

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

Methods for cleaning up : Clean up with detergents. Do not use solvents or thinners.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands immediately after handling the product. Vapours are heavier than air. The can spread along the ground and form mixtures that are explosive with air. Remove contaminated clothing. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Use only non-sparking tools. Provide good ventilation in process area to prevent formation of vapour. Prohibit unauthorized persons. Do not inhale vapour. Handle and open container with care.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Always keep in packaging made of an identical material to the original. Avoid the build-up of electrostatic charge. Keep away from food and drink, including for animals. 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. The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**(R)-P-Mentha-1,8-Diene (5989-27-5)**

Not applicable

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## Hydrocarbons

Not applicable

## MYRCENE (123-35-3)

Not applicable

## G-TERPINENE (99-85-4)

Not applicable

### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Protective clothing. Gloves.



## SECTION 9: Physical and chemical properties

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

|   |                               |
|---|-------------------------------|
| Physical state                              | : Liquid                      |
| Colour                                      | : Orange to dark orange       |
| Odour                                       | : characteristic Fresh Fruity |
| Odour threshold                             | : No data available           |
| pH  | : No data available           |
| Melting point                               | : No data available           |
| Freezing point                              | : No data available           |
| Boiling point                               | : No data available           |
| Flash point                                 | : 52 °C                       |
| Relative evaporation rate (butyl acetate=1) | : No data available           |
| Flammability (solid, gas)                   | : No data available           |
| Vapour pressure                             | : No data available           |
| Relative vapour density at 20 °C            | : No data available           |
| Relative density                            | : < 1                         |
| Solubility                                  | : Insoluble.                  |
| Log Pow                                     | : No data available           |
| Auto-ignition temperature                   | : No data available           |
| Decomposition temperature                   | : No data available           |
| Viscosity, kinematic                        | : No data available           |
| Viscosity, dynamic                          | : No data available           |
| Explosive limits                            | : No data available           |
| Explosive properties                        | : No data available           |
| Oxidising properties                        | : No data available           |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

In the event of a fire, carbon monoxide can be formed. In the event of a fire, carbon dioxide may be formed.

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## 10.2. Chemical stability

This substance is stable under the recommended handling and storage conditions in section 7.

## 10.3. Possibility of hazardous reactions

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NO<sub>x</sub>).

## 10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition. Avoid accumulation of electrostatic charges. Heat.

## 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|  |   |
|--|---|
| Acute toxicity                                     | : Not classified  |
| Skin corrosion/irritation                          | : Causes skin irritation.   |
| Serious eye damage/irritation                      | : Not classified  |
| Respiratory or skin sensitisation                  | : May cause an allergic skin reaction.  |
| Germ cell mutagenicity                             | : Not classified  |
| Carcinogenicity                                    | : Not classified  |
| Reproductive toxicity                              | : Not classified  |
| Specific target organ toxicity (single exposure)   | : Not classified  |
| Specific target organ toxicity (repeated exposure) | : Not classified  |
| Aspiration hazard                                  | : May be fatal if swallowed and enters airways.   |
| Symptoms/injuries after inhalation                 | : Exposure to vapours from this solvent in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. |
| Symptoms/injuries after skin contact               | : May cause an allergic skin reaction. May cause irreversible damage to skin: namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.  |
| Symptoms/injuries after eye contact                | : Splashes in the eyes may cause irritation and reversible local damage.  |
| Symptoms/injuries after ingestion                  | : Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration. May be harmful if swallowed.   |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Do not allow into drains or water courses. Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

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## 12.5. Other adverse effects

Effect on the global warming : No known effects from this product.  
GWPmix comment : No known effects from this product.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Do not contaminate ground and surface water. Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.  
Product/Packaging disposal recommendations : Empty container completely. Keep label on container. Give to a certified disposal contractor.  
Additional information : Recycle or dispose of in compliance with current legislation.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated

### TDG

Not regulated

### Transport by sea

Transport document description (IMDG) : UN 1169 UN1169=EXTRACTS, AROMATIC, LIQUID, 3, III  
UN-No. (IMDG) : 1169  
Proper Shipping Name (IMDG) : UN1169=EXTRACTS, AROMATIC, LIQUID  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : III - substances presenting low danger  
Marine pollutant : Yes



### Air transport

Transport document description (IATA) : UN 1169 UN1169=EXTRACTS, AROMATIC, LIQUID, 3, III  
UN-No. (IATA) : 1169  
Proper Shipping Name (IATA) : UN1169=EXTRACTS, AROMATIC, LIQUID  
Class (IATA) : 3 - Flammable Liquids  
Packing group (IATA) : III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

No additional information available

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

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## 15.3. US State regulations

No additional information available

## SECTION 16: Other information

Full text of H-statements:

|      |  |
|------|--|
| H226 | Flammable liquid and vapour                          |
| H304 | May be fatal if swallowed and enters airways         |
| H315 | Causes skin irritation                               |
| H317 | May cause an allergic skin reaction                  |
| H319 | Causes serious eye irritation                        |
| H400 | Very toxic to aquatic life                           |
| H410 | Very toxic to aquatic life with long lasting effects |

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