

SAFETY DATA SHEET

SECTION 1: PRODUCT / SUBSTANCE IDENTIFICATION

1.1 PRODUCT IDENTIFIER : Tangerine Essential Oil
CHEMICAL NAME : *Citrus reticulata*
CAS NUMBER : 8008-31-9
EC NUMBER : 284-521-0

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE

Industrial uses. Formulation [mixing] of preparations.

USES ADVISED AGAINST

Other uses than those recommended.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

SUPPLIER : Brooklyn Botany
ADDRESS : 6569 Pond Apple Rd. Boca Raton,
FL 33433
TELEPHONE NUMBER : 914-940-5947

1.4 EMERGENSCY TELEPHONE NUMBER

24 HOUR EMERGENCY TELEPHONE NUMBER

USA National Poison Control Center (any day/time) 1 (412) 681-6669.

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION ACCORDING TO THE REGULATION (EC) NO 1272/2008

Flammable liquids, Hazard Category 3; H226 Skin corrosion/irritation, Hazard Category 2; H315

Sensitization — Skin, Hazard Category 1; H317 Aspiration hazard, Hazard Category 1; H304

Hazardous to the aquatic environment — acute hazard, category acute 1; H400
Hazardous to the aquatic environment — long-term hazard, category chronic 1; H410.

2.2 LABEL ELEMENTS

EC Number: 284-521-0
Mandarin orange, oil



SIGNAL WORD

:

Danger

HAZARD STATEMENTS

H226

:

Flammable liquid and vapor

H304

:

Maybe fatal if swallowed and enter airways

H315

:

Causes skin irritation

H317

:

May cause an allergic skin reaction

H410 : Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 : Wear protective gloves/clothing/eye protection/face protection

P301 + P310 : If swallowed, Immediately call a POISON CENTER/doctor

P331 : Do not induce vomiting

P333 + P313 : If skin irritation or rash occurs: Get medical advice/attention

P501 : Dispose of contents/container to an approved waste disposal plant

2.3 OTHER HAZARDS

Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

| CONCENTRATION RANGE OF THE CONSTITUENT (% WEIGHT/WEIGHT) | EC NUMBER/REGISTRATION NUMBER | CAS | CHEMICAL NAME |
|---|--------------------------------------|------------------------|---|
| 100% | 284-521-0 | 8008-31-9 / 84929-38-4 | Tangerine, oil (Citrus reticulata blanco) |

The chemical identity of any impurity, stabilizing additive, or individual constituent other than the main constituent:

| CONCENTRATION (%) | CAS | EC NUMBER | CHEMICAL NAME | HAZARD CLASS AND CATEGORY CODE; HAZARD STATEMENT CODES |
|--------------------------|------------|------------------|----------------------|--|
| >=50 | 138-86-3 | 205-341-0 | Limonene | Flam. Liq. 3;H226- Skin Irrit. 2;H315- Skin Sens. 1;H317- Asp. Tox. 1;H304-Aquatic Acute 1;H400- Aquatic Chronic 1;H410 ^[1] |
| >=1; <10 | 123-35-3 | 204-622-5 | Myrcene | Flam. Liq. 3;H226- Skin Irrit. 2;H315- Eye Irrit. 2;H319- Asp. Tox. 1;H304 ^[1] |
| >=1; <10 | 80-56-8 | 201-291-9 | Pinenes | Flam. Liq. 3;H226- Skin Irrit. 2;H315- Skin Sens. 1B;H317- Asp. Tox. 1;H304- |

SECTION: 4 FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

CONSUMPTION

If swallowed, rinse mouth with water.

Seek medical advice immediately and show this container or label. Do NOT induce vomiting.

EYE CONTACT

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

SKIN CONTACT

Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.

MOST IMPORTANT SYMPTOM AND EFFECTS, BOTH ACUTE AND DELAYED

May produce an allergic reaction.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Not available.

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Recommended: Foam or dry powder.
For safety reasons do not use full water jet.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Not applicable

5.3 ADVICE FOR FIREFIGHTERS

Closed containers may build up pressure at elevated temperatures.
Avoid inhalation of fumes or vapours. Use appropriate respiratory protection.
Prevent run-off from firefighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Do NOT smoke and do NOT expose the product to an open flame or to any other potential source of ignition. Wear appropriate gloves to prevent skin exposure. Avoid contact with skin and inhalation of its vapours or smoke. Maintain adequate ventilation in the working area after spilling.

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid contaminating the environment via the sewers or water sources.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash). Ventilate area and wash spill site after material pickup is complete.

Dispose of in accordance with current laws and regulations.

6.4 REFERENCE TO THE OTHER SECTIONS

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Keep away from food, drink and animal feeding stuffs. Do not smoke.

Avoid contact with skin and eyes.

Handle in accordance with good industrial hygiene and safety practice.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep the product in its original container well sealed, in a dry and ventilated area, away from potential sources of ignition and protected from light. Store in accordance with local/national regulations and follow the warnings

7.3 SPECIFIC END USE(S)

Not available

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Declaration of substances is not required.

8.2 EXPOSURE CONTROLS

| | | |
|---|---|---|
| PERSONAL PROTECTION EQUIPMENT | : | Use personal protection equipment according to Directive 89/686/EEC. |
| ENGINEERING CONTROLS-VENTILATION | : | The areas should where the products is handled and stored should be adequately ventilated |
| RESPIRATORY PROTECTION | : | Do not induce vomiting |
| SKIN PROTECTION | : | Avoid contact with skin. Compatible chemical-resistant gloves are recommended. Wash contaminated gloves before reuse. |
| EYE/FACE PROTECTION | : | Chemical safety goggles are recommended. Wash contaminated goggles before use. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|-------------------------|---|--------------------|
| APPEARANCE | : | LIQUID |
| COLOR | : | Orange |
| ODOR | : | CITRIC, FRESH |
| RELATIVE DENSITY | : | 0.850 g/mL (20 °C) |
| FLASH POINT | : | 49 ° C |

ADDITIONAL INFORMATION : Not Applicable.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Not available

10.2 CHEMICAL STABILITY

Stable under normal operating conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Hazardous Polymerization: It does not undergo any dangerous reactions under normal conditions

10.4 CONDITIONS TO AVOID

Heat, flames, and other sources of ignition.

10.5 INCOMPATIBLE MATERIALS

Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide and unidentified organic compounds may be formed during combustion.

SECTION 11: TOXILIGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

SKIN IRRITATION/CORROSION

This substance meets the criteria for classification in accordance with Regulation (EC) No 1272/2008.

SERIOUS EYE IRRITATION/DAMAGE

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

RESPIRATORY OR SKIN SENSITIZATION

This substance meets the criteria for classification in accordance with Regulation (EC) No 1272/2008.

GERM CELL MUTAGENICITY

This substance meets the criteria for classification in accordance with Regulation (EC) No 1272/2008.

CARCINOGENICITY

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

REPRODUCTIVE TOXICITY

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

STOT-SINGLE EXPOSURE

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

STOT-REPEATED EXPOSURE

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

ASPIRATION TOXICITY

This substance meets the criteria for classification in accordance with Regulation (EC) No 1272/2008.

SECTION 12: ECOLOGICAL INFORMATION

| | |
|--|--|
| 12.1 ACUTE AQUATIC TOXICITY | : Not determined |
| 12.2 PERSISTENCE AND DEGRADIBILITY | : Not available |
| 12.3 BIOCONCENTRATION FACTOR | : Not determined |
| 12.4 MOBILITY IN SOIL | : N/A |
| 12.5 RESULTS OF PBT AND vPvB ASSESSMENT | : Not determined |
| 12.6 OTHER ADVERSE EFFECTS | : Do not allow the material to enter streams, sewers, or other waterways |

SECTION 13: DISPOSAL CONSIDERATION

13.1 WASTE TREATMENT METHODS

CONTAINER DISPOSAL

Containers must be disposed of as hazardous waste. Do not reuse empty containers. Dilute the remaining material and neutralize. Empty residue into a suitable disposal site.

DISPOSAL CONDITIONS

Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way.

SECTION 14: TRANSPORT INFORMATION

14.1 INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR)

| | | |
|-----------------------------|---|----------------------------|
| UN NUMBER | : | UN1169 |
| PROPER SHIPPING NAME | : | EXTRACTS, AROMATIC, LIQUID |
| PACKING GROUP | : | III |

CLASS : 3
TUNNEL RESTRICTION CODE : (D/E)
LABEL :



14.2 SEA TRANSPORT (IMDG)

UN NUMBER : UN1169
PROPER SHIPPING NAME : Extracts, aromatic, liquid (Limonene)
PACKING GROUP : III
CLASS : 3
MARINE POLLUTANT : Yes
LABEL :



14.3 AIR TRANSPORT (ICAO/IATA)

UN NUMBER : UN1169
PROPER SHIPPING NAME : Extracts, aromatic, liquid
PACKING GROUP : III
CLASS : 3
LABEL :



SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH, AND INFORMATION REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Not available.

15.2 CHEMICAL SAFETY ASSESMENT

Not available.

SECTION 16: OTHER INFORMATION

Text of hazard statement codes in section 3 (impurities, stabilizing additives, constituents):

| | | |
|-------------|---|---|
| H226 | : | Flammable liquid and vapor |
| 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. |

This material should only be used for industrial purposes. Key literature references and sources for data:

1. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

2. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
3. OSHA (US) 29 CFR 1910.1200 and 49 CFR, modifying the Hazard Communication Standard and aligning it with the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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