

## SAFETY DATA SHEET

Preparation Date: 03/17/2015

Revision date 11/22/2019

Revision Number: G1

### 1. IDENTIFICATION

#### Product identifier

**Product code:** O1012  
**Product Name:** ORANGE OIL, CALIFORNIA TYPE, COLDPRESSED, FCC

#### Other means of identification

**Synonyms:** Oil of sweet orange  
 Neat oil of sweet orange  
 Orange oil  
 Oils, Orange

**CAS #:** 8008-57-9+  
**RTECS #** RI8600000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** Perfumes and flavors.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Tom Tyner (USA - West Coast)  
**Contact Person:** Ibad Tirmiz (USA - East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Flammable liquids	Category 3

#### Label elements

##### **Warning**

**Hazard statements**  
 Causes skin irritation  
 Causes eye irritation

Flammable liquid and vapor



**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Not available

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed  
Ground container and receiving equipment  
Use explosion-proof equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Wear protective gloves

**Precautionary Statements - Response**

In case of fire: Use CO2, dry chemical, or foam to extinguish.  
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 attention.  
If skin irritation occurs: Get medical attention  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water  
Wash contaminated clothing before reuse

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No	Weight-%
Orange Oil, California Type, Cold Pressed	8028-48-6	100

**4. FIRST AID MEASURES**

**First aid measures**

**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Causes eye irritation  
Causes skin irritation  
May cause irritation of respiratory tract  
May cause burning sensation or stinging, redness, and inflammation of the skin

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Use water spray or water mist, alcohol-resistant foam, Dry chemical or Carbon dioxide (CO<sub>2</sub>).

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous combustion products** No information available.

**Specific hazards** Flammable. May be ignited by heat, sparks or flames. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Container explosion may occur under fire conditions or when heated. Fire may produce irritating, corrosive and/or toxic gases.

**Special Protective Actions for Firefighters**

**Specific Methods:** Water mist may be used to cool closed containers For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up** Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

#### **Safe Handling Advice:**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Keep away from heat and sources of ignition. Use only in well-ventilated areas. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Sensitive to light. Store in light-resistant containers. Keep container tightly closed in a dry and well-ventilated place. Store in a segregated and approved area. Store away from incompatible materials.

#### **Incompatible Materials:**

Oxidizing agents  
Acids

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **National occupational exposure limits**

##### **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Orange Oil, California Type, Cold Pressed	8028-48-6	None	None	None	None

## Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Orange Oil, California Type, Cold Pressed	8028-48-6	None	None	None	None

## Australia and Mexico

Component	CAS No	Australia	Mexico
Orange Oil, California Type, Cold Pressed	8028-48-6	None	None

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

- Eye protection:** Goggles or Safety glasses with side-shields.
- Skin and body protection:** Gloves  
Long sleeved clothing  
Chemical resistant apron
- Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid	<b>Appearance:</b> No information available.	<b>Color:</b> Yellow. Orange.
<b>Odor:</b> Characteristic. Orange-like.	<b>Taste</b> Characteristic. Orange.	<b>Formula</b> No information available
<b>Molecular/Formula weight (g/mole):</b> No information available	<b>Flammability (solid, gas)</b> no data available	<b>Flash point (°C):</b> 45°C
<b>Flashpoint (°C/°F):</b> 45°C/ 113°F	<b>Flash Point Tested according to:</b> Closed cup	<b>Autoignition Temperature (°C/°F):</b> No information available
<b>Lower Explosion Limit (%):</b> No information available	<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> No information available
<b>Decomposition temperature(°C/°F):</b> No information available	<b>Boiling point/range(°C/°F):</b> 175-177°C/ 347-351°F	<b>Bulk density:</b> No information available
<b>Density (g/cm3):</b> No information available	<b>Specific gravity:</b> 0.842-0.846	<b>pH</b> No information available

**Vapor pressure @ 20°C (kPa):**  
0.1

**Evaporation rate:**  
No information available

**Vapor density:**  
No information available

**VOC content (g/L):**  
No information available

**Odor threshold (ppm):**  
No information available

**Partition coefficient (n-octanol/water):**  
No information available

**Viscosity:**  
No information available

**Miscibility:**  
Miscible with Carbon disulfide  
Miscible with alcohol

**Solubility:**  
Insoluble in cold water  
Soluble in glacial Acetic acid

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with acids  
Reactive with oxidizing agents

### Chemical stability

**Stability:** Sensitive to light. Exposure to light accelerates decomposition. Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Exposure to light. Incompatible materials.

**Incompatible Materials:** Oxidizing agents  
Acids

**Hazardous decomposition products:** No information available.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Eyes. Skin.

### Acute Toxicity

### **Component Information**

Orange Oil, California Type, Cold Pressed

CAS No | 8028-48-6

**LD50/oral/rat =** > 5000 mg/kg

**LD50/oral/mouse =** No information available

**LD50/dermal/rabbit =** > 5000 mg/kg

**LD50/dermal/rat =** No information available

**LC50/inhalation/rat =** No information available

LC50/inhalation/mouse = No information available  
 Other LD50 or LC50 information = No information available

**Product Information**

LD50/oral/rat =  
 Value - Acute Toxicity = > 5000 mg/kg

LD50/oral/mouse =  
 Value - Acute Tox = No information available

LD50/dermal/rabbit  
 Value - Acute Toxicity = > 5000 mg/kg

LD50/dermal/rat  
 VALUE - Acute Tox = No information available

LC50/inhalation/rat  
 VALUE-Vapor = No information available  
 VALUE-Gas = No information available  
 VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse  
 VALUE-Vapor = No information available  
 VALUE - Gas = No information available  
 VALUE - Dust/Mist = No information available

Symptoms

**Skin Contact:** Irritating to skin.  
**Eye Contact:** Causes eye irritation.  
**Inhalation** Irritating to respiratory system.  
**Ingestion** Causes digestive (gastrointestinal) tract irritation.  
**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** No information available.  
**Sensitization:** No information available.  
**Mutagenic Effects:** No information available

**Carcinogenic effects:** May cause cancer based on animal test data.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Orange Oil, California Type, Cold Pressed	8028-48-6	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

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

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

**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility in soil** No information available

**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Orange Oil, California Type, Cold Pressed	8028-48-6	None	None	None	None

**14. TRANSPORT INFORMATION**

**DOT**

**UN-No:** UN1197

**Proper Shipping Name:** Extracts, flavoring, liquid

**Hazard Class** 3

**Subsidiary Class** No information available

**Product code:** O1012

**Product name:** ORANGE OIL,  
CALIFORNIA TYPE, COLDPRESSED,  
FCC



**Packing group:** III  
**Emergency Response Guide Number** 127  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** B1, IB3, T2, TP1  
**Symbol(s):** No information available  
**Description:** UN1197, Extracts, flavoring, liquid, 3, III

#### **TDG (Canada)**

**UN-No:** UN1197  
**Proper Shipping Name:** Extracts, flavouring, liquid  
**Hazard Class** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No Information available  
**Description:** UN1197, Extracts, flavouring, liquid, 3, III

#### **ADR**

**UN Number** UN1197  
**Proper Shipping Name:** Extracts, flavouring, liquid  
**Transport hazard class(es)** 3  
**Packing group** III  
**Subsidiary Risk:** No information available  
**Special Provisions** 601  
**Description:** UN1197, Extracts, flavouring, liquid, 3, III

#### **IMDG**

**UN-No:** UN1197  
**Proper Shipping Name:** Extracts, flavoring, liquid  
**Hazard Class:** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No information available  
**EMS:** F-E  
**Special Provisions** 223, 955  
**Description** UN1197, Extracts, flavouring, liquid, 3, III

#### **RID**

**UN Number** UN1197  
**Proper Shipping Name:** Extracts, flavouring, liquid  
**Transport hazard class(es)** 3  
**Subsidiary Risk:** No information available  
**Packing group** III  
**Special Provisions** 601  
**Description:** UN1197, Extracts, flavouring, liquid, 3, III

#### **ICAO (air)**

**UN-No:** UN1197  
**Proper Shipping Name:** Extracts, flavouring, liquid  
**Hazard Class** 3  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** UN1197, Extracts, flavouring, liquid, 3, III  
**Special Provisions** A3

#### **IATA**

**Product code:** O1012

**Product name:** ORANGE OIL,  
CALIFORNIA TYPE, COLDPRESSED,  
FCC

**UN Number** UN1197  
**Proper Shipping Name:** Extracts, flavouring, liquid  
**Transport hazard class(es)** 3  
**Subsidiary Risk:** No information available  
**Packing group** III  
**Precautionary Statements - Response** 3L  
**Special Provisions** No information available  
**Description:** UN1197, Extracts, flavouring, liquid, 3, III

**15. REGULATORY INFORMATION**

**International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
<i>Orange Oil, California Type, Cold Pressed</i>	8028-48-6	Not Listed	Present KE-27409	Present	Not present	Present	Present	Present 232-433-8

**U.S. Regulations**

*Orange Oil, California Type, Cold Pressed*

**FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 182.20

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>Orange Oil, California Type, Cold Pressed</i>	8028-48-6	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
<i>Orange Oil, California Type, Cold Pressed</i>	8028-48-6	None	None	None	None	None

**U.S. TSCA**

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
<i>Orange Oil, California Type, Cold Pressed</i>	8028-48-6	Not Applicable	Not Applicable

**Canada**

**WHIMIS 2015 - GHS Classifications**

**Product code:** O1012

**Product name:** ORANGE OIL,  
CALIFORNIA TYPE, COLDPRESSED,  
FCC

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WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

**Canada Hazardous Products Regulation** This product has not been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**DSL/NDSL**

Component	CAS No	Canada (DSL)	Canada (NDSL)
Orange Oil, California Type, Cold Pressed	8028-48-6	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Orange Oil, California Type, Cold Pressed	8028-48-6	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Orange Oil, California Type, Cold Pressed	8028-48-6	Not listed

**EU Classification**

**EU GHS - SV - CLP 1272/2008**

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Orange Oil, California Type, Cold Pressed	8028-48-6	

**EU - CLP (1272/2008)**

**R-phrase(s)**

R10 - Flammable  
R36/38 - Irritating to eyes and skin

**S -phrase(s)**

S 7 - Keep container tightly closed.  
S36 - Wear suitable protective clothing  
S16 - Keep away from sources of ignition - No smoking  
S39 - Wear eye/face protection  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Orange Oil, California Type, Cold Pressed	8028-48-6		No information	

**The product is classified in accordance with Annex VI to Directive 67/548/EEC**

**Indication of danger:**

Xi - Irritant

**Xi**



## 16. OTHER INFORMATION

**Preparation Date:** 03/17/2015  
**Revision date** 11/22/2019  
**Prepared by:** Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**