

### 1. Product Name and Company Identification

Product Name:	Orange essential oil
Product Use:	Food, pharmaceutical, cosmetics & personal care and aromatherapy industries
Company Name:	NatureXtracts, S.A.
Company Address:	Zona Franca Industrial, Plataforma 28, Pavilhão Industrial K - Módulo 2, 9200-047 Caniçal, Portugal
Date Issued:	01/07/2014
Emergency Telephone Number:	CIAV, Centro de Informação Antivenenos, Tel.: 808 250 143

### 2. Composition / Ingredient Information

Chemical Identity:	<i>Citrus x sinensis</i> essential oil
Composition:	Please see specific data sheet
Steam distilled essential oil:	100%
Hazardous Components:	No dangerous compounds according to Regulation (CE) No. 1907/2006.
Exposure Limits:	N/A
CAS#:	8008-57-9

### 3. Hazards Identification

Routes of Entry:	<ul style="list-style-type: none"> <li>- Eyes</li> <li>- Skin</li> <li>- Ingestion</li> <li>- Inhalation</li> </ul>
Eye Contact:	Irritation will occur.
Skin Contact:	May cause irritation upon prolonged exposure
Ingestion:	Inhalation may cause irritation
Inhalation:	Ingestion in large doses may cause human death

### 4. First Aid Measures

Eyes:	Flush with plenty of water or eye wash solution for 15 minutes. Get medical attention if irritation persists.
Skin:	Remove contaminated clothing. Wash the affected area with soap and water. Flush with plenty of water. Seek medical attention if irritation persists.
Ingestion:	Administer water or milk to dilute. Seek medical attention immediately or call a poison control center.

Inhalation:	Remove to fresh air. Seek medical attention if necessary.
Medical Conditions Generally Aggravated by Exposure:	None known.

## 5. Fire Fighting Measures

Flash Point (Method Used):	>46 °C close cup
Conditions Under Which Flammability Could Occur:	No information
Extinguishing Media:	<ul style="list-style-type: none"> <li>- Dry Chemical</li> <li>- Carbon Dioxide</li> <li>- Foam</li> </ul>
Special Firefighting Procedures:	Fire fighters should wear positive pressure self-contained breathing apparatus. Cool containers exposed to flame with water. Spray extinguishing media directly into base of fire.
Unusual Fire & Explosion Hazards:	Not established

## 6. Accidental Release Measures (Steps for Spills)

Personal Protection:	<ul style="list-style-type: none"> <li>- Avoid ingestion</li> <li>- Follow good industrial practice as to housekeeping, personal hygiene and avoidance of prolonged or repeated contact with the skin or eyes</li> <li>- Wear eye protection, gloves and aprons. Ventilate area well</li> </ul>
Methods for Cleaning Up:	<ul style="list-style-type: none"> <li>- Eliminate all sources of ignition</li> <li>- Ventilate area</li> <li>- Remove individuals without respiratory protection</li> <li>- Prevent liquid from entering sewers</li> <li>- Small spills can be wiped up with paper rags (place in closed metal waste container)</li> <li>- Large spills can be absorbed onto non-flammable absorbent</li> <li>- Wash area with soap and water</li> </ul>

## 7. Handling and Storage

Safe Handling:	<ul style="list-style-type: none"> <li>- Avoid ingestion</li> <li>- Follow good industrial practice as to housekeeping, personal hygiene and avoidance of prolonged or repeated contact with skin or eyes</li> <li>- Wear eye protection, gloves and aprons. Ventilate area well</li> </ul>
Requirements for Storage Areas and containers:	Store in a cool and dry location, in a sealed container in a well-ventilated area. Do not expose to temperatures over 35 °C.

## 8. Exposure Control / Personal Protection

Personal Protection	
Eye:	Splash goggles or face shield should be worn.
Skin / Body:	Wear chemical resistant gloves and clothing to avoid skin contact.
Respiratory:	Avoid casual breathing of vapors.
Ventilation	Local, mechanical exhaust is recommended.
Work / Hygiene Practice:	Personal hygiene is an important work practice exposure control measure and the following general measures

should be taken when working with or handling this material:

- Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- Wash exposed skin promptly to remove accidental splashes or contact with this material.

## 9. Physical and Chemical Properties

Physical State:	Liquid
Color:	Intense yellow to deep orange
Odor:	Characteristic of orange peel
Vapor Pressure (mm Hg)	Not available
Specific Gravity (20 °C):	0.845 – 0.849
Refractive Index (20 °C):	1.472 – 1.474
Flash Point:	>46 °C
Boiling Point:	Not determined
Melting Point:	Not determined
Solubility in Water:	Insoluble

## 10. Stability and Reactivity

Stability:	This material is stable under normal conditions
Reactivity:	Material is not pyrophoric, does not react with water, Does not undergo explosive decomposition, is not an oxygen donor, material is shock stable. Will not undergo hazardous exothermic polymerization.
Incompatibility (Materials to Avoid)	Avoid contact with strong oxidizing agents and avoid hot work and sources of ignition on or near empty containers.
Conditions to Avoid:	Avoid contact with sparks, flame and heat.
Hazardous Decomposition or byproducts:	CO, CO <sub>2</sub> , smoke and unidentified organic compounds may be formed during combustion.
Hazardous Polymerization:	Will not occur

## 11. Toxicological Information

Caution:	Liquid may be irritating to eyes and skin.
Threshold limit value:	None established
Carcinogenicity:	None established
Acute Toxicity Data:	Oral LD <sub>50</sub> : None established Dermal LD <sub>50</sub> : None established Inhalation LD <sub>50</sub> : None established Ingestion of large quantities: None established Inhalation: None established Skin Contact: Liquid may be irritating Eye Contact: Liquid may be irritating
Health Hazards (Acute & Chronic):	Note: The above effects are based on evaluation of individual components, the relevancy to the mixture as a whole or to humans is unknown. Handling of this fragrance that results in inhalation of fumes, may cause severe adverse health effects.

## 12. Ecological Information

No information

## 13. Disposal Considerations

Waste Disposal Methods: Dispose of according to local, state and federal regulations.

## 14. Transport Information

Proper Shipping Name:	Terpene Hydrocarbons, N.O.S. (Terpenes)
UN#:	2319
UN Packing Group:	III
Air / Steamer Transport Information:	
Class:	Air: 3 Steamer: 3 Required Labels: Flammable Liquid
HMIS:	Health: 1   Flammability: 2   Reactivity: 0   Personal Protection: B

## 15. Regulatory Information

R-Phase:	10-38-43-50/53-65
S-Phase:	24-37-61-62

## 16. Additional Information

This information is provided for documentation purposes only.  
This product is not considered hazardous under normal conditions of use.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provide to your employees or customers.