



# Essential Oils, Skincare & Aromatherapy Products

## SAFETY DATA SHEET

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

PRODUCT NAME: **Lime Essential Oil**

SUPPLIER: Celtic Tree Oils, Carlingford, Co. Louth, Ireland, A91 D86V

PRODUCT NUMBER: **30**

CAS NUMBER: 8008-26-2 / 90063-52-8

EC NUMBER: - / 290-010-3

INCI: Citrus Aurantifolia Oil

IDENTIFIED USES: Flavours, Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

BIOLOGICAL DEFINITION: Citrus Aurantifolia Oil is the volatile oil obtained from the fruits of the Lime, Citrus aurantifolia, Rutaceae.

### 2: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

#### CLASSIFICATION (EC 1272/2008):

- PHYSICAL HAZARDS: Flammable Liquid, Hazard Category 3
- HEALTH HAZARDS: Aspiration Hazard Category 1  
Skin Corrosion / Irritation Category 2  
Sensitization - Skin Category 1
- ENVIRONMENTAL HAZARDS: Long-term Aquatic Hazard Category 1

#### LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD:

DANGER

HAZARD 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.  
H410, Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS: P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.  
P233, Keep container tightly closed.  
P240, Ground/bond container and receiving equipment.  
P241, Use explosion-proof electrical, ventilating and lighting equipment.  
P242, Use only non-sparking tools.  
P243, Take precautionary measures against static discharge.  
P261, Avoid breathing vapour or dust.  
P264, Wash hands and other contacted skin thoroughly after handling.  
P272, Contaminated work clothing should not be allowed out of the workplace.  
P273, Avoid release to the environment.  
P280, Wear protective gloves/eye protection/face protection.  
P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P303/361/353, IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing.  
Rinse skin with water/shower.  
P331, Do not induce vomiting.  
P333/313, If skin irritation or rash occurs: Get medical advice/attention.  
P362, Take off contaminated clothing and wash before reuse.  
P370/378, In case of fire: Use foam, dry powder or CO2 to extinguish.  
P403/235, Store in a well-ventilated place. Keep cool.  
P405, Store locked up.  
P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

CONTAINS: d-Limonene, p-mentha-1,4-diene, Terpinolene, alpha-Terpinene

### **3: COMPOSITION/INFORMATION ON INGREDIENTS**

|  |                           |
|--|---------------------------|
| <b>55.73% d-Limonene</b>                       |                           |
| CAS NUMBER: 5989-27-5                          | EC NUMBER: 227-813-5      |
| CLASSIFICATION (EC 1272/2008):                 | H226-H304- H315-H317-H410 |
| <b>17.35% γ-Terpinene (p-mentha-1,4-diene)</b> |                           |
| CAS NUMBER: 99-85-4                            | EC NUMBER: 202-794-6      |
| CLASSIFICATION (EC 1272/2008):                 | H226-H304                 |
| <b>9.65% Terpinolene</b>                       |                           |
| CAS NUMBER: 586-62-9                           | EC NUMBER: 209-578-0      |
| CLASSIFICATION (EC 1272/2008):                 | H304-H317-H410            |
| <b>8.30% p-Mentha-1,3-diene</b>                |                           |
| CAS NUMBER: 99-86-5                            | EC NUMBER: 202-795-1      |
| CLASSIFICATION (EC 1272/2008):                 | H226-H302-H304-H411       |
| <b>3.51% p-Cymene</b>                          |                           |
| CAS NUMBER: 99-87-6                            | EC NUMBER: 202-796-7      |
| CLASSIFICATION (EC 1272/2008):                 | H226- H304-H411           |

|                                 |                                |
|---------------------------------|--------------------------------|
| <b>3.50% Eucalyptol</b>         |                                |
| CAS NUMBER: 470-82-6            | EC NUMBER: 207-431-5           |
| CLASSIFICATION (EC 1272/2008):  | H226-H317                      |
| <b>3.5% 1,4-Cineole</b>         |                                |
| CAS NUMBER: 470-67-7            | EC NUMBER: 207-428-9           |
| CLASSIFICATION (EC 1272/2008):  | H226                           |
| <b>3.48% alpha-Terpineol</b>    |                                |
| CAS NUMBER: 98-55-5             | EC NUMBER: 202-680-6           |
| CLASSIFICATION (EC 1272/2008):  | H315-H319                      |
| <b>2.84% alpha-Pinene</b>       |                                |
| CAS NUMBER: 80-56-8             | EC NUMBER: 201-291-9           |
| CLASSIFICATION (EC 1272/2008):  | H226-H302-H304- H315-H317-H410 |
| <b>2.67% beta-Pinene</b>        |                                |
| CAS NUMBER: 127-91-3            | EC NUMBER: 204-872-5           |
| CLASSIFICATION (EC 1272/2008):  | H226-H304- H315-H317-H410      |
| <b>1.50% Myrcene</b>            |                                |
| CAS NUMBER: 123-35-3            | EC NUMBER: 123-35-3            |
| CLASSIFICATION (EC 1272/2008):  | H226-H304-H315-H319-H410       |
| <b>0.83% l-beta-Bisabolene</b>  |                                |
| CAS NUMBER: 495-61-4            | EC NUMBER: n/a                 |
| CLASSIFICATION (EC 1272/2008):  | H304- H315-H317                |
| <b>0.74% Citral</b>             |                                |
| CAS NUMBER: 5392-40-5           | EC NUMBER: 226-394-6           |
| CLASSIFICATION (EC 1272/2008):  | H315- H317-H319                |
| <b>0.50% Camphene</b>           |                                |
| CAS NUMBER: 79-92-5             | EC NUMBER: 201-234-8           |
| CLASSIFICATION (EC 1272/2008):  | H228-H319-H410                 |
| <b>0.50% Beta-Caryophyllene</b> |                                |
| CAS NUMBER: 87-44-5             | EC NUMBER: 201-746-1           |
| CLASSIFICATION (EC 1272/2008):  | H304-H317                      |
| <b>0.50% alpha-Phellandrene</b> |                                |
| CAS NUMBER: 99-83-2             | EC NUMBER: 202-792-5           |
| CLASSIFICATION (EC 1272/2008):  | H226-H304                      |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### **4: FIRST AID MEASURES**

|                      |  |
|----------------------|--|
| INHALATION:          | Remove from exposure area to fresh air. Obtain medical advice immediately.   |
| INGESTION:           | Wash mouth out with water and obtain medical advice immediately.   |
| SKIN CONTACT:        | Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage. |
| EYE CONTACT:         | Flush with plenty of water and seek medical advice.  |
| GENERAL INFORMATION: | May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction.   |

## **5: FIREFIGHTING MEASURES**

EXTINGUISHING MEDIA RECOMMENDED:

SPECIAL HAZARDS ARISING FROM THE PRODUCT:

ADVICE FOR FIREFIGHTERS:

Use foam, dry powder or CO2 to extinguish.

In case of fire, Carbon monoxide, Unidentified organic compounds may be liberated.

In case of insufficient ventilation, wear suitable respiratory equipment.

## **6: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS:

ENVIRONMENT PRECAUTIONS:

CLEANING UP METHODS FOR SPILLAGES:

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

Do not discharge into drains, water courses or onto the ground. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

## **7: HANDLING AND STORAGE**

USAGE PRECAUTIONS:

OCCUPATIONAL HYGIENE:

STORAGE PRECAUTIONS:

Keep away from heat, sparks, open flames and hot surfaces.

No smoking.

Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

## **8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

WORKPLACE EXPOSURE LIMITS:

Not Applicable.

PROTECTIVE EQUIPMENT:



PROCESS CONDITIONS:

ENGINEERING MEASURES:

RESPIRATORY EQUIPMENT:

Provide eyewash station.

Provide adequate ventilation.

Under normal conditions of use and where adequate ventilation is available to prevent build-up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material. Also refer to Sections 2 and 7.

HAND PROTECTION:

EYE PROTECTION:

Wear protective gloves.

Wear eye protection/face protection.

|                                  |   |
|----------------------------------|---|
| OTHER PROTECTION:                | No additional data available.   |
| HYGIENE MEASURES:                | Good personal hygiene practices are always advisable, especially when working with chemicals / oils. Keep away from foodstuffs, beverages and feed. |
| PERSONAL PROTECTION:             | Avoid inhalation and contact with skin and eyes.  |
| SKIN PROTECTION:                 | Wear apron or protective clothing in case of splashes.  |
| ENVIRONMENTAL EXPOSURE CONTROLS: | Avoid discharging into drainage water. Only eliminate by authorised companies.  |

## **9: PHYSICAL AND CHEMICAL PROPERTIES**

|                                 |  |
|---------------------------------|--|
| Appearance:                     | Liquid, Virtually colourless to pale yellow / green. |
| Colour:                         | Virtually colourless to pale yellow / green.         |
| Odour:                          | Characteristic – Fresh, citrus, lime                 |
| Relative Density:               | Approx. 0.854 @ 20°C                                 |
| Flash Point (°C):               | 40   |
| Refractive Index:               | Approx. 1.475 @ 20°C                                 |
| Melting Point (°C):             | No additional data available.                        |
| Boiling Point (°C):             | No additional data available.                        |
| Vapour Pressure:                | No additional data available.                        |
| Solubility in Water @20°C:      | Insoluble in water.                                  |
| Auto-ignition temperature (°C): | No additional data available.                        |

## **10: STABILITY AND REACTIVITY**

|                                   |   |
|-----------------------------------|---|
| REACTIVITY:                       | Presents no significant reactivity hazards, by itself or in contact with water. |
| CHEMICAL STABILITY:               | Stable under normal temperature and storage conditions and recommended use.     |
| POSSIBLE HAZARDOUS REACTIONS:     | Not expected under normal temperature conditions and recommended use.           |
| CONDITIONS TO AVOID:              | Avoid extreme heat.   |
| INCOMPATIBLE MATERIALS:           | Avoid contact with strong acids, alkalis and oxidising agents.                  |
| HAZARDOUS DECOMPOSITION PRODUCTS: | Not expected under normal temperature conditions and recommended use.           |

## **11: TOXICOLOGICAL INFORMATION**

|                                    |  |
|------------------------------------|--|
| ACUTE TOXICITY:                    | Based on available data the classification criteria are not met.     |
| SKIN CORROSION / IRRITATION:       | Causes skin irritation. Skin Corrosion / Irritation Category 2       |
| SERIOUS EYE DAMAGE / IRRITATION:   | Based on available data the classification criteria are not met.     |
| RESPIRATORY OR SKIN SENSITISATION: | May cause an allergic skin reaction. Sensitization - Skin Category 1 |
| GERM CELL MUTAGENICITY:            | Based on available data the classification criteria are not met.     |
| CARCINOGENICITY:                   | Based on available data the classification criteria are not met.     |
| REPRODUCTIVE TOXICITY:             | Based on available data the classification criteria are not met.     |
| STOT-SINGLE EXPOSURE:              | Based on available data the classification criteria are not met.     |
| STOT-REPEATED EXPOSURE;            | Based on available data the classification criteria are not met.     |
| ASPIRATION HAZARD:                 | May be fatal if swallowed and enters. Aspiration Hazard Category 1   |
| PHOTO-TOXICITY:                    | No additional data available.  |
| OTHER INFORMATION:                 | No additional data available.  |

## **12: ECOLOGICAL INFORMATION**

|                                     |  |
|-------------------------------------|--|
| ECOTOXICITY:                        | Very toxic to aquatic life with long lasting effects                                     |
| PERSISTENCE AND DEGRADABILITY:      | No additional data available.  |
| BIOACCUMULATIVE POTENTIAL:          | No additional data available.  |
| MOBILITY IN SOIL:                   | No additional data available.  |
| RESULTS OF PBT AND vPvB ASSESSMENT: | This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.                 |
| PRECAUTIONS:                        | Do not discharge into the environment especially not into waterways, sewers and the sea. |

## **13: DISPOSAL CONSIDERATIONS**

|                   |   |
|-------------------|---|
| DISPOSAL METHODS: | Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal. |
|-------------------|---|

## **14: TRANSPORT INFORMATION**

|                       |                            |
|-----------------------|----------------------------|
| UN No. ROAD:          | 1169                       |
| UN No. SEA:           | 1169                       |
| UN No. AIR:           | 1169                       |
| PROPER SHIPPING NAME: | Extracts, Aromatic, Liquid |

### **TRANSPORT HAZARD CLASS(ES):**

- |                      |                    |
|----------------------|--------------------|
| - ADR/RID/ADN CLASS: | 3 Flammable Liquid |
| - IMDG CLASS:        | 3 Flammable Liquid |
| - ICAO CLASS:        | 3 Flammable Liquid |



### **PACKING GROUP:**

- |                              |     |
|------------------------------|-----|
| - ADR/RID/ADN PACKING GROUP: | III |
| - IMDG PACKING GROUP:        | III |
| - ICAO PACKING GROUP:        | III |

### **ENVIRONMENTAL HAZARDS:**



|  |                               |
|--|-------------------------------|
| TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE: | No additional data available. |
|--|-------------------------------|

## **15: REGULATORY INFORMATION**

### STATUTORY INSTRUMENTS:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

### EU LEGISLATION:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation 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, including amendments.

### GUIDANCE:

Workplace Exposure Limits EH40. CHIP for everyone HSG (108).

## **16: OTHER INFORMATION**

### HAZARD AND/OR PRECAUTIONARY STATEMENTS IN FULL:

H226, Flammable liquid and vapour.  
H302, Harmful if swallowed.  
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.  
H411, Toxic to aquatic life with long lasting effects.

### Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.  
Retest after 6 months.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.