



Specification

Product Name: Lemon Flavouring Oil

Product Code: SPEC0144

Description:

Our natural Flavouring Oils are pressed from the fruit and then purified so that they impart a clean sharp flavour to your product. They are 100% pure highly concentrated undiluted oil. Ideal for flavouring chocolate, desserts, ganaches, oils marinades and sauces.

Specifications:

Flash Point deg C	43
Aroma / Taste	Typical citrus lemon odour
Appearance / Physical State	Yellow-yellow green liquid
Composition	Citrus limonum CAS 8008-56-8 EINECS 84929-31-7 EC 284-515-8

Refractive Index 20degC	$\geq 1.472 \leq 1.476$
Optical Rotation	$\geq 57.0 \leq 65.0$
Density (g/ml,20c)	$\geq 0.848 \leq 0.858$
Aldehyde content (as citral)	≥ 3.20
Organoleptic Test (Mandatory)	

Ingredients:

Pure Essential Flavouring Oil

Dietary Information:

Suitable for Vegan's & Vegetarian's, Non GMO, Gluten Free, Non-Irradiated.

Storage:

Dark, dry and cool conditions.

Packaging:

Size	EAN
30ml	5060341112355
500ml	5056191011269
1 Litre	5056191007545
5 Litre	5056191007552

Shelf Life:

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24 months from production date.

Allergen Declaration

Allergen	Contains (Y/N)
Cereals containing Gluten	N
Crustaceans	N
Eggs	N
Fish	N
Peanuts	N
Soybeans	N
Milk	N
Nuts	N
Celery	N
Mustard	N
Sesame Seeds	N
Sulphur Dioxide and Sulphites (at concentration of more than 10mg/kg or 10mg/L in terms of Sulphur Dioxide)	N
Lupin	N
Molluscs	N

Material Safety Data Sheet

1: Substance/Preparation and Company Identification:

1.1 – Product Identifier

Product Name: Lemon Flavouring Oil

Product Code: SPEC0144

Alternative Name:

UK REACH Reg No: Not registered

1.2 – Relevant identified uses of the substance or mixture

Concentrated material for manufacturing purposes only

1.3 – Suppliers Details

Special Ingredients Ltd, 4 Foxwood View, Chesterfield, S41 9RN. Tel: 0044 (0)1246 906247.

E-mail address: <https://specialingredients.co.uk/pages/contact>,

Emergency Telephone Contact: 07387 330318.

2: Hazard Identification:

2.1 – Classification of the substance or mixture

FL 3: Flammable liquid, category 3

AH 1: Aspiration hazard, category 1

SCI 2: Skin corrosion/irritation, category 2

SS 1: Skin sensitisation, category 1

REP 2: Reproductive toxicity, category 2

EH C2: Aquatic hazard, chronic, category 2

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2.2 – GB CLP Label elements

GB CLP classification according to Regulation (EC) No 1272/2008

Hazard Pictograms



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

H361: Suspected of damaging fertility or the unborn child

H411: Toxic to aquatic life with long lasting effects

Precautionary Statements

P280: Wear protective gloves and eye protection

P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE.

P302+P352: IF ON SKIN: Wash with plenty of water.

P308+P313: IF exposed or concerned: Get medical advice.

P331: Do NOT induce vomiting.

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

2.3 – Other hazards

Contains Citral and Limonene which may produce an allergic reaction

No further information available at this time

3: Composition and Information on Ingredients:

Any percentage values listed here for hazardous components are for illustrative purposes only.

3.1 – Substances

Description: LEMON FLAVOURING OIL

USCAS Number: 8008-56-8

CAS Number: 84929-31-7

EC/EINECS: 284-515-8

Hazardous components

ID Numbers		Chemical Name, Classification and Hazards	Conc (%)
CAS	5989-27-5	d-Limonene (p-Mentha-1,8-diene) AH 1;SCI 2;SS 1B;EH A1,C1 H304,H315,H317,H400,H410	70.0000
EINECS	227-813-5		
REACH			
CAS	127-91-3	beta-Pinene AH 1;SCI 2;SS 1B;EH A1,C1 H304,H315,H317,H400,H410	12.0000
EINECS	204-872-5		
REACH			

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CAS EINECS REACH	99-85-4 202-794-6	gamma-Terpinene (p-Mentha-1,4-diene) FL 3;AH 1 H226,H304	10.0000
CAS EINECS REACH	80-56-8 201-291-9	alpha-Pinene AH 1;SCI 2;SS 1B;EH A1,C1 H304,H315,H317,H400,H410	3.0000
CAS EINECS REACH	5392-40-5 226-394-6	Citral SCI 2;SS 1B;EDI 2 H315,H317,H319	2.5000

Refer to section 16 for the wording of listed classification and hazard statement codes

4: First Aid Measures:

Take phrases in section 2 into account

4.1 – Description of first aid measures

After Inhalation: Remove from the exposure area to fresh air. Contact a doctor if necessary.

After 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.

After Eye contact: Flush with plenty of water and seek medical advice if necessary.

After Ingestion: Wash mouth with plenty of water and obtain medical advice immediately.

4.2 – Most important symptoms and effects, both acute and delayed

No further information available at this time.

4.3 – Indication of any immediate medical attention and special treatment needed

No further information available at this time.

5: Firefighting Measures:

5.1 – Extinguishing media

Carbon dioxide, foam or dry powder

DO NOT USE A DIRECT WATER JET.

5.2 – Special hazards arising from the substance or mixture

May produce Carbon dioxide and unidentified organic compounds.

5.3 – Advice for firefighters

Wear protective clothing and avoid inhalation of vapours.

6: Accidental Release Measures:

6.1 – Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.

Avoid inhalation, skin and eye contact.

Ensure proper ventilation.

6.2 – Environmental precautions

Do not discharge directly into drains or the soil. Keep away from surface and ground water

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6.3 – Methods and material for containment and cleaning up

Soak up spillage with sand or other inert absorbent material such as earth or vermiculite; transfer used material to a suitable waste container and dispose in accordance with regulations.

6.4 – Reference to other sections

Refer to information in Sections 7, 8 and 13.

7: Handling And Storage:**7.1 – Precautions for safe handling**

Maintain good occupational and personal hygiene. Avoid inhalation and contact with skin and eyes.

7.2 – Conditions for safe storage, including any incompatibilities

Store in tightly sealed original containers away from ignition sources and in a cool place.

7.3 – Specific end use(s)

No further information available

8: Exposure Controls/ Personal Protection:**8.1 – Control parameters**

No information available

8.2 – Exposure controls

Engineering controls: No information available

Individual protection measures: Refer to Section 5 for specific fire/chemical personal protective equipment advice. Always wash routinely before breaks, meals and at the end of the work period.

Eye/face protection: Wear safety goggles.

Hand protection: Wear chemically resistant disposable gloves.

Other skin protection: Wear overalls. Always wash routinely before breaks, meals and at the end of the work period.

Respiratory protection: Not generally required. Use inhalation protection in poorly ventilated areas

Thermal hazards: No information available

Environmental exposure controls: No information available

9: Physical and Chemical Properties:**9.1 – Information on basic physical and chemical properties**

FLASH POINT (°C): 43

Colour: Yellow-yellow green

Aroma: Typical citrus lemon odour

Solubility: Insoluble

9.2 – Other information

No further information available

10: Stability and Reactivity:**10.1 – Reactivity**

Not determined

10.2 – Chemical stability

Not determined

10.3 – Possibility of hazardous reactions

Not determined

10.4 – Conditions to avoid

Extreme temperatures

10.5 – Incompatible materials

Highly reactive chemicals which may produce unknown reaction products and so cause additional hazards.

10.6 – Hazardous decomposition products

Not determined

11: Toxicological Information:**11.1 – Information on toxicological effects**

Acute toxicity

Skin corrosion / irritation: No data available

Serious eye damage / irritation: No data available

Respiratory or skin sensitisation: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

STO-single exposure: No data available

STO-repeated exposure: No data available

Aspiration hazard: No data available

Information on likely routes of exposure: No data available

Symptoms related to the physical, chemical and toxicological characteristics: No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure: No data available

Interactive effects: No data available

Other information: No data available

12: Ecological Considerations:**12.1 – Toxicity**

No data available; avoid soil, surface water and water-bearing stratum contamination.

12.2 – Persistence and degradability

No data available

12.3 – Bioaccumulative potential.

No data available

12.4 – Mobility in soil

No data available

12.5 – Results of PBT and vPvB assessment.

No data available

12.6: Other adverse effects

No data available

13: Disposal considerations:

Please refer to the information in Section 8 (Exposure controls and personal protection)

13.1 – Waste treatment methods

Dispose in accordance with the law and local regulations. Treat as trade effluent.

14: Transport Information:**14.1 – UN number**

ADR: 1197

IAT: 1197

IMDG: 1197

14.2 – UN Proper Shipping Name

ADR: EXTRACTS, LIQUID

IAT: EXTRACTS, LIQUID

IMDG: EXTRACTS, LIQUID

14.3 – Transport hazard class(es)

ADR: 3

IAT: 3

IMDG: 13

14.4 – Packing group

ADR: III

IAT: III

IMDG: III

Tunnel Code: (D/E)

14.5 – Environmental hazards

Marine Pollutant - contains environmentally hazardous substances (LIMONENE)

14.6 – Special precautions for user

No relevant information available

14.7 – Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

15: Regulatory Information:**15.1 – Safety, health and environmental regulations/legislation specific for the substance or mixture**

No relevant information available at this time

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15.2 – Chemical safety assessment

A chemical safety assessment has not been carried out

16: Other Information:

Full list of precautionary phrases

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

P262: Do not get in eyes, on skin, or on clothing.

P273: Avoid release to the environment.

P280: Wear protective gloves and eye protection

P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE.

P302+P352: IF ON SKIN: Wash with plenty of water.

P308+P313: IF exposed or concerned: Get medical advice.

P331: Do NOT induce vomiting.

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

P362+P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

Wording of any hazard classes listed in section 3

FL 3: Flammable liquid, category 3

AH 1: Aspiration hazard, category 1

SCI 2: Skin corrosion/irritation, category 2

SS 1B: Skin sensitisation, category 1B

EDI 2: Eye damage/irritation, category 2

EH A1: Aquatic hazard, acute, category 1

EH C1: Aquatic hazard, chronic, category 1

Wording of any hazard statements listed in section 3

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

The information contained in this data sheet is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control. We do not accept any liability whatsoever, however arising, which results directly or indirectly from the use of the product.