



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

Kumquat Essential Oil

SECTION 1: Identification

1.1 Product Identifier

Item	Details
Product Name	Kumquat Essential Oil
Botanical Name	<i>Fortunella margarita</i> (syn. <i>Citrus japonica</i>)
INCI Name	<i>Fortunella Margarita Peel Oil</i>
CAS Number	938464-05-2
EC Number	Not Assigned
Product Type	Natural Essential Oil
Plant Part	Fruit Peel
Extraction Method	Cold Expression (Cold Pressed)

Kumquat essential oil is obtained from the peel of the fruit and consists predominantly of limonene (typically 76–94%), together with minor amounts of citronellal, citral, geraniol and other citrus terpenes.

1.2 Supplier

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SECTION 2: Hazard Identification

Classification (GHS / CLP)

- Flammable Liquid – Category 3



- Aspiration Hazard – Category 1
- Skin Irritation – Category 2
- Skin Sensitisation – Category 1
- Aquatic Acute Toxicity – Category 1
- Aquatic Chronic Toxicity – Category 1

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 and open flames.
- P261 Avoid breathing vapours.
- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE.
- P331 Do NOT induce vomiting.
- P391 Collect spillage.
- P501 Dispose of contents/container according to local regulations.

SECTION 3: Composition / Information on Ingredients

Component	CAS Number	Typical Content
Kumquat Essential Oil	938464-05-2	100%
Limonene	5989-27-5	76–94%
Octanal	124-13-0	1–5%
Decanal	112-31-2	1–5%
Citronellal	106-23-0	≤3%
Citral	5392-40-5	≤10%
Geraniol	106-24-1	≤0.2%

The principal constituent is limonene, with aldehydes contributing the characteristic sweet citrus aroma.



SECTION 4: First Aid Measures

Inhalation

Move the affected person to fresh air.
Seek medical attention if symptoms persist.

Skin Contact

Wash immediately with soap and water.
Remove contaminated clothing.

Eye Contact

Flush cautiously with water for at least 15 minutes.
Seek medical advice if irritation persists.

Ingestion

Rinse mouth.
Do NOT induce vomiting.
Obtain immediate medical attention.

SECTION 5: Fire Fighting Measures

Suitable Extinguishing Media

- Carbon dioxide
- Dry chemical
- Alcohol-resistant foam
- Water fog

Hazardous Combustion Products

- Carbon monoxide
 - Carbon dioxide
 - Irritating organic vapours
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SECTION 6: Accidental Release Measures

- Wear suitable PPE.
 - Eliminate ignition sources.
 - Prevent entry into drains.
 - Absorb using inert absorbent.
 - Dispose according to local regulations.
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SECTION 7: Handling and Storage



Handling

- Avoid contact with skin and eyes.
- Avoid breathing vapours.
- Use only with adequate ventilation.

Storage

Store:

- Between 15–25 °C
 - In tightly sealed original containers.
 - Protected from light and heat.
 - Away from oxidising agents.
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SECTION 8: Exposure Controls / Personal Protection

Engineering Controls

Local exhaust ventilation.

Personal Protective Equipment

- Safety goggles
 - Nitrile gloves
 - Protective clothing
 - Organic vapour respirator where ventilation is inadequate
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SECTION 9: Physical and Chemical Properties

Property	Typical Value
Appearance	Clear orange to orange-yellow liquid
Odour	Fresh, sweet citrus, fruity
Relative Density (20 °C)	0.844–0.850
Refractive Index (20 °C)	1.473–1.475
Flash Point	47 °C
Physical State	Liquid
Solubility	Insoluble in water; soluble in alcohol and perfume solvents

These values are consistent with published specifications for CAS 938464-05-2.



SECTION 10: Stability and Reactivity

Stable under recommended storage conditions.

Avoid:

- Heat
- Open flames
- Strong oxidising agents
- Direct sunlight

Hazardous decomposition products include carbon monoxide and carbon dioxide.

SECTION 11: Toxicological Information

Routes of exposure:

- Skin
- Eyes
- Inhalation
- Ingestion

Potential effects:

- Skin irritation
 - Allergic skin reaction
 - Eye irritation
 - Aspiration hazard if swallowed
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SECTION 12: Ecological Information

Very toxic to aquatic organisms.

Avoid uncontrolled release into waterways.

SECTION 13: Disposal Considerations

Dispose of contents and containers through an authorised waste disposal contractor.

Do not discharge into drains.



SECTION 14: Transport Information

Item	Information
UN Number	UN 1169 (Extracts, Aromatic, Liquid) (<i>commonly applicable; verify for the specific shipment</i>)
Hazard Class	3
Packing Group	III

SECTION 15: Regulatory Information

Prepared with reference to:

- REACH Regulation (EC) No. 1907/2006
 - CLP Regulation (EC) No. 1272/2008
 - Commission Regulation (EU) 2020/878
 - OSHA Hazard Communication Standard (29 CFR 1910.1200)
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SECTION 16: Other Information

This Safety Data Sheet is a professional supplier SDS prepared using publicly available technical data and representative safety information for Kumquat Essential Oil (CAS 938464-05-2). Botanical composition may vary depending on cultivar, origin and extraction method, and batch-specific analytical values should be confirmed by the supplier. Published references report a flash point of approximately 47 °C, density 0.844–0.850, refractive index 1.473–1.475, and limonene as the dominant constituent.

Authorised by
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