


MATERIAL SAFETY DATA SHEET
In accordance with Regulation (EC) No. 1907/2006

| 1. Product Identification | |
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| Product Name: | Lemon Oil |
| Botanical Name: | Citrus Limonum |
| CAS # | 8020-19-7 |
| EC No. | 284-515-8 |
| Country of Origin: | India |

| 2. Hazards identification | |
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| Classification under Regulation (EC) No 1271/2008 | |
| Class and Category of Danger: | Flam. Liq. 3 |
| | Asp. Tox. 1 |
| | Skin Irrit. 2 |
| | Skin Sens. 1 |
| | Aquatic Acute 1 |
| | Aquatic Chronic 1 |
| | 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 |
| | H411, Toxic to aquatic life with long lasting effects |
| Signal Word: | DANGER |

| Classification in accordance with Regulation (EC) No. 1272/2008 (EU-GHS/CLP) | |
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| Hazard Pictograms: |  |
| Precautionary Statements: | P210, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| | P273, Avoid release to the environment |
| | P280, Wear protective gloves/protective clothing/eye protection/face protection |
| | P301+P310, IF SWALLOWED: Immediately call a POISON CENTER/doctor/... |
| | P302+P352, IF ON SKIN: Wash with plenty of water/... |

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| | P501, Dispose of contents/container to ... |
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3. Composition/ Information on Ingredients

| Contains: | | | | |
|-----------|-----------|-------|-------------|--|
| Name | CAS | % | DSD | CLP |
| Lemon Oil | 8020-19-7 | 100 % | Xi; R38,R43 | 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, , H411, Toxic to aquatic life with long lasting effects, |

4. First Aid Measures

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|---------------|---|
| Eye Contact: | Flush with water for at least 15 minutes and report to physician. |
| Inhalation: | Remove to fresh air. Avoid casual breathing. |
| Ingestion: | Rinse mouth and consult physician immediately. |
| Skin Contact: | Remove contaminated clothing. Wash with soap and plenty of water. |

5. Fire Fighting Measures

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| Extinguishing Media: | CO2, Dry Chemical, Foam |
| Advise: | In case of insufficient ventilation, wear suitable respiratory equipment |

6. Accidental Release Measures

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| Spillage: | Absorb spills using an inert, inorganic absorbent material |
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| Fire: | Recommended extinguishing media – CO ₂ , foam and dry chemicals |
| Environment: | Keep away from drains, surface and ground water |
| Storage: | Store in cool, dry, well ventilated area away from sources of flame, heat and oxidation |
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7. Handling and Storage

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| Precautions: | Keep away from heat, sparks, open flames and hot surfaces. No smoking. |
| Storage: | Store in a well-ventilated, cool place with container tightly closed. Ground/bond container and receiving equipment |
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8. Exposure Controls/Personal Protection

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| Workplace Exposure Limits: | N/a |
| Eye/Skin protection: | Wear protective gloves/ eye protection/face protection |
| Respiratory protection: | 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. |
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9. Physical and chemical properties

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| Appearance: | Pale yellow to yellow liquid |
| Odor: | Characteristic lemon-rind odor |
| Solubility: | Soluble in alcohol and oils. Insoluble in water |
| Specific Gravity: | 0.845 to 0.859@ 20°C |
| Refractive Index: | 1.472 to 1.475@ 20°C |
| Flash Point: | 76°C |

10. Reactivity/Stability Data

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|----------------------|---|
| Reactivity: | Stable |
| Chemical Stability: | Stable |
| Decomposition: | N/a |
| Conditions to Avoid: | Avoid extreme heat and avoid contact with strong acids, alkalis or oxidizing agents |

11. Toxicological Properties/Information

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| Causes skin irritation. May cause an allergic skin reaction. |
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Causes serious eye irritation.

12. Ecological information

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| Toxicity: | N/a |
| Persistence and degradability: | N/a |
| Bioaccumulative potential: | N/a |
| Mobility in soil: | N/a |
| Results of PBT and vPVB assessment: | This substance does not meet the PBT/ vPVB criteria of REACH , annex XIII |
| Other adverse effects: | N/a |

13. Disposal considerations

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| Waste treatment 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. |
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14. Transport Information

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| UN Number: | - |
| Shipping Name: | Lemon Oil |
| Hazard Class: | - |
| Packing Group: | - |

15. Regulatory information

None Additional

16. Other information

N/A

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