

MATERIAL SAFETY DATA SHEET (MSDS)

In compliance with directive 91/155/ECC and its adaptations

ISOEUGENOL

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND THE COMPANY/ UNDERTAKING

| | |
|-----------------|---|
| COMMERCIAL NAME | AROMA CHEMICALS |
| INTENDED USE | FRAGRANCE & FLAVOUR |
| MANUFACTURER | M/S. LAKSHMI SYNTHESIS PLOT No. A-18, M.I.D.C, INDUSTRIAL AREA, SAONER-441107; DISTRICT –NAGPUR, MAHARASHTRA, INDIA. Phone no: +91-711-3236501. +91-9922407501, +91-9422107501 Email: lakshmisynthesis@gmail.com |

2. COMPOSITION / INFORMATION ON INGREDIENTS

| | |
|-------------------|------------|
| PRODUCT | ISOEUGENOL |
| MOLECULAR FORMULA | C10 H12 O2 |
| MOLECULAR WEIGHT | 164 |
| CAS NO. | 97-54-1 |
| EINECS/ELINCS NO | 202-590-7 |

M/S LAKSHMI SYNTHESIS

PLOT NO. A/18 M.I.D.C. INDUSTRIAL AREA SAONER-441107, DISTRICT NAGPUR, MAHARASHTRA, INDIA.

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3. HAZARDS IDENTIFICATION

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| PHYSICAL & CHEMICAL HAZARDS | Refer to the paragraph relating to Physico-Chemical properties information. |
| HAZARDS TO MAN | Refer to the paragraph relating to toxicology data and regulatory information. |
| HAZARDS TO ENVIRONMENT | Refer to the paragraph relating to ecological data and regulatory information. Product not classified and dangerous according to the European directive 67/548 and its adaptations. |

4. FIRST AID MEASURES

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| EYE CONTACT | Rinse immediately with plenty of water for 10 minutes at least. Contact a physician if symptoms persist. |
| SKIN CONTACT | Wash thoroughly with soap and water; flush with plenty of water. Take off spoilt clothes. Contact physician if symptoms persist. |
| INGESTION | Wash the mouth with water; seek medical advice immediately. |
| INHALATION | Remove from exposure site to fresh air and keep at rest. Obtain medical advice. |

5. FIRE FIGHTING MEASURES

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| EXTINGUISHING MEDIA RECOMMENDED | CO ₂ , foam, dry chemicals. |
| NON RECOMMENDED | Do not use direct water jet on burning Material. |
| EXTINGUISHING PROCEDURES | Closed containers may build up pressure at elevated temperatures. If possible, containers should be cooled with a water spray. |

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6. ACCIDENTAL RELEASE MEASURES

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| PERSONAL PRECAUTIONS | Use individual protective equipment (waterproof boots, suitable protective clothing and safety glasses). Prevent any contact with hot surface. Do not approach facing the wind. |
| ENVIRONMENT PRECAUTIONS | Keep away from drains, surface, groundwater and soil. |
| METHODS FOR CLEANING UP | Contain spilled material. Cover with inert, non-combustible, inorganic Absorbent material, or sweep up and remove to an approved disposal container. Avoid open flames or other sources of ignition. |

7. HANDLING AND STORAGE

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|-------------------------------|---|
| PRECAUTION IN HANDLING | Apply according to good manufacturing and Industrial hygiene practices/ proper ventilation. Do not drink, eat or smoke while handling. Respect good personal hygiene. |
| STORAGE CONDITIONS | Store in a cool, dry and ventilated area away from heat sources and protected from light in tightly closed original container. Keep air contact to a minimum. |

8. EXPOSURE CONTROLS

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|---------------------------------|---|
| RESPIRATORY PROTECTION | Avoid to breathe directly on the product. Apply local ventilations appropriate. |
| VENTILATION | Ensure good ventilation of the work station. |
| HAND PROTECTION | Avoid skin contact. Use chemical resistant gloves as needed. |
| EYE PROTECTION | Use safety glasses. |
| WORK/ HYGIENIC PRACTICES | Wash hand with soap and water after handling. |

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------|----------------------------------|
| APPEARANCE | COLOURLESS TO PALE YELLOW LIQUID |
| FLASH POINT | 142 °C |
| SPECIFIC GRAVITY | 1.079-1.085 |
| WATER SOLUBILITY | INSOLUBLE IN WATER |

10. STABILITY AND REACTIVITY

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|---------------------|---|
| REACTIVITY | It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents. |
| CONDITIONS TO AVOID | Excessive heat, open flamed or other sources of ignition, otherwise stable at ambient conditions. |

11. TOXICOLOGICAL INFORMATION

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|-----------------------------|------|
| LD 50 oral (mg/kg) ORGANISM | 1560 |
| ORGANISM | RAT |

12. ECOLOGICAL INFORMATION

| | |
|------------------|---|
| BIODEGRADABILITY | Not determined |
| PRECAUTIONS | Prevent contamination of soil, ground and surface water |

13. DISPOSAL CONSIDERATIONS

In accordance with local environment laws. Avoid disposing into drainage systems into the environment.

14. TRANSPORT INFORMATION

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|------------------------------------|--------------|
| CLASS: UN/ID Number: Packing group | Not Required |
| RID/ ADR | Not Required |
| IMDG | Not Required |
| ICAO/ IATA | Not Required |

15. REGULATORY INFORMATION

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| LABEL | ISOEUGENOL |
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OTHER INFORMATION

The information contained in the present MSDS, according to regulation 1907/2006, is based on our knowledge and experience at the moment of publishing it. This document tries to give information about the correct use, storage and transport. **BEARING IN MIND THAT THE USE OF THIS INFORMATION AND THE CONDITIONS OF USE OF THE PRODUCT ARE NOT UNDER CONTROL.**

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