

## Material Safety Data Sheet Ravensara Oil

### SECTION 1.1 – PRODUCT IDENTIFICATION

**Product Name** : Ravensara Oil  
**Molecular Formula** : Not applicable  
**Molecular Weight** : Not applicable  
**CAS No.** : 91770-56-8

### SECTION: 1.2 COMPANY IDENTIFICATION

**Company Name:** Indenta Chemicals (India) Pvt. Ltd.

**Address:** 117, The Summit Business Bay, Opp Cinemax, Off. Sir M.V. Road, Near WEH Metro Station, Andheri (E), Mumbai 400 093, India

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### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	% by Weight
Ravensara Oil	91770-56-8	100

**Toxicological Data on Ingredients:** No Data Available

### SECTION 3: HAZARD IDENTIFICATION

#### 3.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Flammable liquid, Category 3 (Flam. Liq. 3, H226).

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Germ cell mutagenicity, Category 2 (Muta. 2, H341).

Carcinogenicity, Category 2 (Carc. 2, H351).

Aspiration hazard, Category 1 (Asp. Tox. 1, H304).

Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

#### 3.2 Label elements

##### Labelling according Regulation (EC) No



**Pictogram**

**Signal word**

Danger

### Indenta Chemicals (India) Pvt. Ltd.

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Unit 2: Building No. 73, Gala No. 7, Indian Corporation Compound, Village Gundavli, Mankoli Naka, Bhiwandi, Thane - 421302



**Contains**

601-029-00-7 (R)-P-MENTHA-1,8-DIENE  
 EC 205-427-8 ESTRAGOLE  
 EC 236-719-3 DELTA-3-CARENE  
 EC 201-291-9 ALPHA-PINENE X  
 EC 204-622-5 MYRCENE  
 EC 202-223-0 EUGENYL METHYL ETHER (METHYL EUGENOL)  
 EC 204-872-5 B-PINENE  
 EC 201-746-1 BETA-CARYOPHYLLENE  
 EC 202-792-5 A-PHELLANDRENE  
 EC 202-794-6 G-TERPINENE  
 EC 202-795-1 P-MENTHA-1,3-DIENE (SEE ALPHA-TERPINENE)

**Hazard statement(s)**

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.  
 H341 Suspected of causing genetic defects.  
 H351 Suspected of causing cancer.  
 H411 Toxic to aquatic life with long lasting effects

**Precautionary statement(s)**

P210 Keep away from heat/sparks/open flames/hot surfaces. — 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 or doctor/physician.  
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard

Statements none

**3.3 Other hazards**

The substance does not satisfy the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first-aid measures****If inhaled**

Move to fresh air for at least 15 minutes, in case of complaints seek medical attention.

**In case of skin contact**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In case of eye contact**

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

**If swallowed**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor.

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

No data available

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

No data available

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**SECTION 5: FIRE AND EXPLOSION DATA**

**5.1 Extinguishing media**

Keep packages near the fire cool, to prevent pressurised containers from bursting.

**Suitable methods of extinction**

Prevent the effluent of fire-fighting measures from entering drains or waterways.

**5.2 Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>).

**5.3 Advice for firefighters**

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

**5.4 Further information**

No data available

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid any contact with the skin and eyes.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2 Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

**6.3 Methods and materials for containment and cleaning up**

Clean preferably with a detergent, do not use solvents.

**6.4 Reference to other sections**

No data available

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Remove contaminated clothing and protective equipment before entering eating areas.

#### Fire prevention :

Handle in well-ventilated areas.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Never inhale this substance.

Prevent the accumulation of electrostatic charges with connections to earth.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

#### Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this substance.

Avoid exposure - obtain special instructions before use.

#### Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the substance is used.

Never open the packages under pressure.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from food and drink, including those for animals.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

Avoid accumulation of electrostatic charges.

#### Packaging

Always keep in packaging made of an identical material to the original.

## SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational exposure limits :

ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
13466-78-9	20 ppm	-	-	-	-
80-56-8	20 ppm	-	-	-	-
127-91-3	20 ppm	-	-	-	-

### 8.2 Exposure controls

#### Protective Equipment



### **Process Conditions**

Provide eyewash station.

### **Engineering Measures**

Where appropriate, use closed system to transfer and process this material – if appropriate, isolate mixing rooms and other areas.

Where this material is used or openly handled - maintain these areas under negative air pressure relative to the rest of the plant.

### **Respiratory Equipment**

Not necessary in adequate local with general ventilation - avoid breathing vapours.

### **Hand Protection**

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Recommended properties :

- Impervious gloves in accordance with standard EN374

### **Eye Protection**

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides in accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

### **Other Protection**

Protective work clothing solvent resistant (should be checked regularly).

Hygiene Measures Good personal hygiene practices are always advisable, especially when working with chemicals / oils.

Personal Protection No additional data available.

### **Skin Protection**

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

### **Environmental Exposure Controls**

The usual precautions in handling chemicals have to be observed.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**9.1 Information on basic physical and chemical properties**

<b>a) Appearance</b>	Form: Mobile liquid. Color: Colourless to pale yellow.
<b>b) Odor</b>	Characteristic.
<b>c) Odor Threshold</b>	No data available
<b>d) pH</b>	No data available
<b>e) Melting point/freezing point</b>	No data available
<b>f) Initial boiling point and boiling range</b>	No data available
<b>g) Flash point</b>	50°C
<b>h) Evaporation rate</b>	No data available
<b>i) Flammability (solid,gas)</b>	No data available
<b>j) Upper/lower flammability or explosive limits</b>	No data available
<b>k) Vapor pressure</b>	No data available
<b>l) Vapor density</b>	No data available
<b>m) Relative density</b>	0.870 – 0.930 at 20°C
<b>n) Water solubility</b>	Insoluble in water.
<b>o) Partition coefficient: n-octanol/water</b>	No data available
<b>p) Autoignition temperature</b>	No data available
<b>q) Decomposition temperature</b>	No data available
<b>r) Viscosity</b>	No data available
<b>s) Explosive properties</b>	No data available
<b>t) Oxidizing properties</b>	No data available

**9.2 Other safety information**

No data available

**SECTION 10: STABILITY AND REACTIVITY**

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**10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces.



### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

In the event of fire: see section 5

## SECTION 11: TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

#### Acute toxicity

P-MENTHA-1,3-DIENE (SEE ALPHA-TERPINENE) (CAS: 99-86-5)

Oral route : LD50 = 1680 mg/kg

G-TERPINENE (CAS: 99-85-4)

Oral route : LD50 = 3850 mg/kg

EUCALYPTOL (CAS: 470-82-6)

Oral route : LD50 = 2480 mg/kg

EUGENYL METHYL ETHER (METHYL EUGENOL) (CAS: 93-15-2)

Oral route : LD50 = 810 mg/kg

4-TERPINENOL (CAS: 562-74-3)

Oral route : LD50 = 1300 mg/kg

Dermal route : LD50 = 2500 mg/kg

LINALOOL (CAS: 78-70-6)

Oral route : LD50 = 3000 mg/kg

ALPHA-PINENE X (CAS: 80-56-8)

Oral route : LD50 = 3700 mg/kg

DELTA-3-CARENE (CAS: 13466-78-9)

Oral route : LD50 = 4800 mg/kg

ESTRAGOLE (CAS: 140-67-0)

Oral route : LD50 = 1230 mg/kg

#### Skin corrosion/irritation

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May cause an allergic reaction by skin contact.

#### Serious eye damage/eye irritation

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

#### Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

Cause for concern owing to the possibility that it may induce heritable mutations in the germ cells of humans.

#### Carcinogenicity

Suspected human carcinogen.

#### Reproductive toxicity

No data available

#### Specific target organ toxicity - single exposure

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

May be fatal if swallowed and enters airways.

**Additional Information**

CAS 93-15-2 : IARC Group 2B : The agent is possibly carcinogenic to humans.

CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

**SECTION 12: ECOLOGICAL INFORMATION**

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**12.1 Toxicity**

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

**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

**SECTION 13: DISPOSAL CONSIDERATION**

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**13.1 Waste treatment methods**

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14: TRANSPORT INFORMATION**

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**14.1 UN number**

ADR/RID: 1169

IMDG: 1169

IATA: 1169

**14.2 UN proper shipping name**

Extracts, aromatic, liquid.

**14.3 Transport hazard class(es)**

ADR/RID: 3

IMDG: 3

IATA: 3



**14.4 Packaging group**

ADR/RID: III                      IMDG: III                      IATA: III

**14.5 Environmental hazards**

ADR/RID: no                      IMDG Marine pollutant: yes                      IATA: no

**14.6 Special precautions for user**

ADR/RID

Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
3	F1	III	3	30	5 L	601 640E	E1	3	D/E

IMDG

Class	2° Label	Pack gr.	LQ	EMS	Provis.	EQ
3	-	III	5 L	F-E,S-D	223 955	E1

IATA

Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
3	-	III	355	60 L	366	220 L	A3	E1
3	-	III	Y344	10 L	-	-	A3	E1.

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG

**SECTION 15: OTHER REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Statutory Instruments

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

Guidance Notes

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

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.

**15.2 Chemical Safety Assessment**

No data available

**SECTION 16: ADDITIONAL INFORMATION**

This information is provided for documentation purposes only.

The information contained in this Certificate of Analysis and Material Safety Data Sheet is obtained from current and reliable sources. The information contained herein is true and to the best of Indenta Chemicals (India) Pvt. Ltd. knowledge. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any Laws or Regulation. Final determination of the suitability of the material is the sole responsibility of the user. Customers should purchase products from Indenta Chemicals (India) Pvt. Ltd. with the clear understanding that all products must be used at the customer's own discretion and only after referencing Material Safety Data Sheets (MSDS) and all other relevant technical information specific to the product. Indenta Chemicals (India) Pvt. Ltd. shall not be held responsible for any damages to property or for any adverse physical effects (including injury or bodily harm) caused by insufficient knowledge or the improper use of a product. The user of the product is solely responsible for compliance with all laws

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