



# RV INTERNATIONAL

Essential Oils Manufacturer & Bulk Supplier in India

GST NO. 06BGIPG9360E1ZF

Address: Opposite Sudhanshu Maharaj Ashram, Shiv Mandir, Nimbri, Panipat, Haryana 132104

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1.1 — PRODUCT IDENTIFICATION

**PRODUCT NAME:** MACE ESSENTIAL OIL

**BOTANICAL NAME:** Myristica fragrans

**SYNONYMS:** Mace Oil, Nutmeg Mace Oil, Myristica fragrans Mace Oil

**PART OF PLANT USED:** Dried Mace (Aril surrounding the nutmeg seed)

**MOLECULAR FORMULA:** NOT APPLICABLE

**MOLECULAR WEIGHT:** NOT APPLICABLE

**CAS No.:** 8007-12-3

### SECTION 1.2 — COMPANY IDENTIFICATION

**Company Name:** RV International

**Address:** Shiv Mandir, Ujha Rd, Opposite Sudhanshu Aashram, Nimbri, Panipat, Haryana 132104

**Telephone:** +91 8937003005

**Email:** info@rvorganica.com

**Website:** www.rvorganica.com

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	HAZARDOUS STATEMENT
MACE ESSENTIAL OIL	8007-12-3	Flammable Liquid; Skin/Eye Irritant; Sensitizer; Neurotoxic at high doses (Myristicin, Elemicin, Safrole)

**HAZARDOUS CLASSIFICATION:** FLAMMABLE LIQUID; SKIN AND EYE IRRITANT; SENSITIZER.

\*PERSONAL CARE, COSMETIC, PERFUMERY & FOOD FLAVOUR PURPOSE — USE STRICTLY AS PER IFRA & FEMA GUIDELINES. AVOID ORAL INGESTION OF UNDILUTED OIL.

### SECTION 3: HAZARD IDENTIFICATION

The toxicological properties of this material have not been fully investigated.


**Eye Contact:** Causes eye irritation and possible serious damage upon direct undiluted contact.

**Skin Contact:** May cause skin irritation and sensitization upon prolonged or repeated exposure. Contains myristicin and elemicin — use only in recommended dilutions.

**Inhalation:** High concentrations of vapour may cause headache, nausea or dizziness. Myristicin vapour at very high doses may have psychoactive effects. Move to fresh air immediately.


**Ingestion:** DO NOT ingest undiluted oil. Contains myristicin which is toxic in large doses — may cause nausea, vomiting, hallucinations and CNS effects. Seek immediate medical attention.

### SECTION 4: FIRST AID MEASURES

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**Eyes:** Flush immediately with plenty of water or eyewash solution for at least 15 minutes. Get immediate medical attention.

**Skin:** Remove contaminated clothing immediately. Wash thoroughly with soap and plenty of water for at least 15 minutes. Seek medical attention if irritation, redness or sensitization persists.

**Ingestion:** DO NOT induce vomiting. Seek immediate medical attention or call a poison control center. Inform medical staff of myristicin content. Administer water or milk only if conscious and able to swallow.

**Inhalation:** Move to fresh air immediately. If unconscious or breathing difficulty occurs, administer oxygen and seek immediate medical attention.

## SECTION 5: FIRE AND EXPLOSION DATA

**Flash Point (Method Used):** >65°C Close Cup

**Extinguishing Media:** Dry Chemical, Carbon Dioxide, Foam

**Unsuitable Media:** Water (except to cool containers)

**Special Firefighting Procedures:** Fire fighters should wear positive pressure self-contained breathing apparatus. Toxic vapors including myristicin may be released upon combustion. Cool containers exposed to flame with water. Spray extinguishing media directly into base of fire.

**Unusual Fire & Explosion Hazards:** Not established

**Hazardous Decomposition Materials:** Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), myristicin vapour and other irritating organic compounds may form upon combustion

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Protection:** Avoid ingestion and all skin/eye contact. Follow good industrial hygiene practices. Wear eye protection, chemical-resistant gloves and aprons. Eliminate all ignition sources. Ventilate area thoroughly.

**Methods for Cleaning Up:** Eliminate all sources of ignition. Ventilate area thoroughly. Prevent liquid from entering sewers or waterways.

- Small spills: wipe up with paper rags (place in closed metal waste container)
- Large spills: absorb onto non-flammable absorbent material. Wash area thoroughly with soap and water.

## SECTION 7: HANDLING AND STORAGE

**Safe Handling:** Avoid skin, eye and inhalation exposure. Always dilute before use. Never ingest undiluted. Follow strict industrial hygiene practices. Use in well-ventilated areas. Keep away from heat, sparks and open flames. Keep containers tightly sealed at all times.

**Storage Requirements:** Store in a cool (below 25°C), dry, dark, well-ventilated place in tightly sealed aluminium or amber glass containers. Protect from direct sunlight and heat. Shelf life: 24 months from manufacture. Keep out of reach of children.


## SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

**Threshold Limit Value:** Not established

**Work Practice Controls:** Personal hygiene is an important work practice exposure control measure. Extra caution required due to myristicin content.

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- Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- Wash exposed skin promptly to remove accidental splashes or contact with this material.

**Respiratory:** Avoid breathing vapours. Use approved respirator with organic vapour cartridge if ventilation is inadequate.

**Ventilation:** Local, mechanical exhaust strongly recommended

**Eye:** Wear chemical-splash resistant safety goggles

**Skin:** Wear chemical resistant gloves (nitrile/neoprene) and full protective clothing to avoid skin contact

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid, Oil

**Color:** Pale Yellow to Yellow

**Odor:** Warm, Spicy, Sweet, Fresh, Woody — Characteristic Nutmeg/Mace Spice Scent

**Vapor Pressure (mmHg.):** Not available

**Flash Point:** >65°C (Closed Cup)

**Boiling Point:** Not available

**Melting Point:** NA

**Density @25°C:** 0.896

**Refractive Index @25°C:** 1.474

**Solubility in Water:** Practically insoluble in water; miscible with alcohol and fixed oils

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** This material is stable under normal conditions. Sensitive to light and air — reseal tightly after each use.

**Incompatibility (Materials to Avoid):** Avoid contact with strong oxidizing agents and hot sources of ignition on or near empty containers.

**Conditions to Avoid:** Avoid contact with sparks, flame, heat and direct sunlight. Avoid prolonged air exposure.

**Hazardous Decomposition By-products:** Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), myristicin vapour and irritating organic compounds may form during combustion.

**Hazardous Polymerization:** Will Not Occur

## SECTION 11: TOXICOLOGICAL INFORMATION

**CAUTION:** Contains myristicin, elemicin and safrole — compounds with potential neurotoxic and psychoactive effects at high doses. NEVER ingest undiluted. Avoid use during pregnancy. Avoid use on infants and young children. Keep strictly out of reach of children.

**Irritancy:** Skin and eye irritation upon direct undiluted contact

**Sensitization:** May cause allergic skin reaction in sensitized individuals

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**Health Hazards (Acute & Chronic):** Ingestion of large quantities: TOXIC. Myristicin can cause nausea, vomiting, rapid heartbeat, dry mouth, CNS excitation and hallucinations at toxic doses. Chronic high-dose exposure may have liver effects. At normal recommended cosmetic/aromatherapy dilutions it is considered safe.

**Harmful Contact:** Irritant

**Eye Contact:** Irritant

Note: Mace essential oil, derived from the aril of *Myristica fragrans*, shares a similar chemical profile to nutmeg oil but with a slightly different constituent ratio. At recommended use levels in cosmetics, perfumery and food flavouring it is well-tolerated. The key safety concern is myristicin content — avoid high doses, ingestion of undiluted oil, and use during pregnancy.

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity:** May be harmful to aquatic life with long lasting effects. Avoid release into the environment.

**Persistence:** Biodegradable under aerobic conditions.

**Bioaccumulation:** Low potential for bioaccumulation.

## SECTION 13: DISPOSAL CONSIDERATION

**Waste Disposal Methods:** Dispose of according to local, state and federal regulations. Do not dispose via sewage drains. Incinerate in approved facility with appropriate emission controls.

## SECTION 14: OTHER REGULATORY INFORMATION

**CAS NO:** 8007-12-3

**Hazards:** Flammable Liquid; Skin Irritant; Eye Irritant; Sensitizer; Toxic in large oral doses (Myristicin)

**Risk Phrases:** Irritating to eyes and skin if used undiluted. May cause sensitization by skin contact. Toxic if ingested in large quantities due to myristicin content. Avoid use during pregnancy. May be harmful to aquatic organisms.

**Safety Phrases:** Avoid contact with eyes and skin. NEVER ingest undiluted oil. Always dilute before topical application. Do not use during pregnancy or on infants. In case of ingestion seek immediate medical attention. In case of eye contact, rinse immediately with a steady stream of water and seek medical advice. Keep tightly sealed away from light and heat. Keep strictly out of reach of children.

**FEMA Status:** GRAS (Generally Recognized as Safe) for food flavouring at recommended levels — FEMA No. 2653

**IFRA Compliance:** Use in compliance with current IFRA guidelines for respective product category.


**REACH:** Compliant with EU REACH Regulation (EC) No. 1907/2006.


## SECTION 16: ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

The information contained in this Material Safety Data Sheet is obtained from current and reliable sources. The information contained herein is true and to the best of RV International's knowledge. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations.

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