



# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE & COMPANY

**Product Name:** Pure Nature Mandarin Essential Oil

**Product Code:** EO032

**Supplier:** Firm-n-Fold Massage Equipment, 18 Leda Drive Burleigh Heads QLD 4220  
Head Office Tel. 07 5508 2111 Customer Care Tel. 1800 640 524

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Definition/Botanical Origin:** The volatile oil obtained by expression of the peels of mandarin oranges, *Citrus nobilis*.

**H-No.:** n/a

**CAS No.:** 708008-31-9

**Status:** natural

**CoE No.:** n/a

**FEMA:** n/a

**Additives:** none

**FDA:** n/a

**IFRA:** restricted

**Application:** aromatherapy, skin care, etc.

**RIFM:** monograph

**EC No.:** 284-521-0

**EINECS-CAS No.:** 64929-38-4

**RTECS:** n/a

**FCCIV:** official (expressed)

**INCI name:** Citris nobilis (mandarin orange) peel oil

## 3. PHYSICAL & CHEMICAL PROPERTIES

**Colour:** Reddish-orange

**Appearance:** Mobile liquid

**Odour:** Characteristic of the peel of the fruit

**Flashpoint °C:** 48

**Specific Gravity @ 20°C:** 0.844 - 0.854

**Refractive Index @ 20°C:** 1.468 - 1.478

## 4. REGULATORY INFORMATION

**Hazards:** Harmful; Dangerous for the environment

**Symbols:** Xn; N

**Risk Phrases:** R10 Flammable, R38 Irritating to skin, R43 May cause sensitisation by skin contact, R50/53 Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment, R65 Harmful: may cause lung damage if swallowed.

**Safety Phrases:** S24 Avoid contact with skin, S37 Wear suitable gloves, S61 Avoid release to the environment, S62 If swallowed, do not induce vomiting: seek medical advice immediately.

## 5. TOXICOLOGICAL INFORMATION

Cosmetics Directive 7<sup>th</sup> Amendment: Restrictions may apply. A source of Limonene and Linalool, listed as sensitisers. Check maximum usage levels for skin care products.

IFRA recommend that for applications on areas of skin exposed to sunshine, excluding bath preparations, soaps and other products which are washed off the skin, the total level of bergapten (5-methoxypsoralen) in the consumer products should not exceed 0.0015% (15 ppm). This is equivalent to 0.0075% (75 ppm) in a fragrance compound used at 20% in the consumer product. The typical level of bergapten in Mandarin Oil, Cold Pressed is 250 ppm.

## 6. STABILITY & REACTIVITY

**Reactivity:** It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidising agents.

**Decomposition:** Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

## 7. HANDLING & STORAGE

**Precautions in Handling:** Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.

**Storage Conditions:** Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to minimum.

**Fire Protection:** Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

**Disposal Considerations:** Avoid disposing to drainage systems and into the environment. Seek expert advice.

**Shelf Life:** When stored within advised conditions, re-test after 12 months then at 3 monthly intervals up to a maximum shelf life of 36 months.

**8. FIRST-AID MEASURES**

**Inhalation:** Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.

**Eye Contact:** Rinse immediately with plenty of water for at least 15 mins. Contact a doctor if symptoms persist.

**Skin Contact:** Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.

**Ingestion:** Rinse mouth out with water. Seek medical advice *immediately*.

**9. FIRE FIGHTING MEASURES**

**Extinguishing Media:** Use CO<sub>2</sub>, Dry Powder or Foam type extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.

**Extinguishing Procedures:** Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

**10. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.

**Environment Precautions:** Keep away from drains, soils, surface & groundwaters.

**Cleaning Up Methods:** Remove all potential ignition sources. Contain spilled material. Cover spillages with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe state, federal & local disposal regulations.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.