



MATERIAL SAFETY DATA SHEET



GB-ORG-05

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

Product name: Tagetes Oil Madagascar

Product code: 1335

Supplier: Shirley Price Aromatherapy Ltd. 8 Hawley Road, Hinckley, Leicestershire LE10 0PR

Emergency Tel No: 01455615466 Emergency Contact: Mr. P.I. Brealey

For a full, up to date list of MSDS' see <http://www.shirleypriceessentia.com/msds.html>

2. COMPOSITION / INFORMATION ON INGREDIENTS.

Definition/Botanical Origin: The volatile oil obtained by steam distillation of the flowering plants of *Tagetes minuta* L. (syn. *T. glandulifera*) Fam. Asteraceae

CAS (TSCA) No: 8016-84-0

FDA: §

CAS (EINECS) No: 91770-75-1

IFRA:

Status: natural

RTECS:

CoE No: 443

RIFM: Monograph

FEMA:

EINECS: 294-862-7

Additives: none

FCCIV:

INCI Name: Tagetes minuta Flower Oil

3. HAZARDS IDENTIFICATION:

Xi Irritant

4. 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**.

Other: When assessing action take Risk & Safety Phrases into account (Section 15)

5. FIRE FIGHTING MEASURES.

Extinguishing media Use CO₂, Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.

Special measures: Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.

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

6. 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 for 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.

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 a minimum.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

Respiratory protection: Avoid breathing product vapour. Apply local ventilation where possible.

Ventilation: Ensure good ventilation of working area.

Hand protection: Avoid all skin contact. Use chemically resistant gloves if required.

Eye protection: Use safety glasses.

Work/Hygiene practices: Wash hands with soap & water after handling.

9. PHYSICAL & CHEMICAL PROPERTIES.

Colour: pale yellow, reddening over time

Appearance: Mobile liquid become viscous over time

Odour: Fruity-herbal, sometimes with slight bitter green aspect when fresh

Flash point °C: 25 - 39

Specific gravity at 20°C: 0.845 - 0.890

Refractive index @ 20°C: 1.470 - 1.500

Solubility in vegetable oils: Soluble

Solubility in water: Insoluble

Note: Tagettes oil contains compounds such as tagetones, dihydrotagetones, ocimenones etc. all of which are easily and progressively polymerised during the life of the oil. The oil cannot therefore be readily assessed on the basis of its' physio-chemical characteristics.

10. 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.

11. TOXICOLOGICAL INFORMATION.

RIFM data D.L.J. Opdyke (1972) FCT 20 finds that Tagetes oil and absolute from *T. minuta* and *T. patula* are non-toxic, non-irritant and non-sensitising. RIFM's subsequent unpublished findings regarding photo-toxicity has led to an IFRA guideline limiting Tagete oil's usage in perfume compounds to 0.25% where skin is exposed to sunlight (excluding bath preps etc). J. Meynadier (1983) at the 9th Essential oils congress in Singapore presented a paper showing that the photo-sensitisation properties of Tagetes oil are linked to the thiophene content.

12. ECOLOGICAL INFORMATION.

Biodegradability: Data not available

Precautions: Prevent surface contamination of soil, ground & surface water.

13. DISPOSAL CONSIDERATIONS.

Avoid disposing to drainage systems and into the environment. Seek expert advice.

14. TRANSPORT REGULATIONS.

Road (ADR/RID): Class 3 item 31c UN:1993

Air (IATA): Class 3 packing Gp III UN:1993

Sea (IMDG): Class 3 UN:1993

CHIP: See section 15

15. REGULATORY INFORMATION. According to Directive 88/379/EEC

Hazards: Irritant

Symbols: Xi

Risk Phrases:

R10 Flammable

R38 Irritating to skin

Safety Phrases:

S24 Avoid contact with skin

S16 Keep away from sources of ignition; No Smoking

Full list of Hazards, symbols & phrases available at <http://www.hse.gov.uk/chip/phrases.htm>

16. OTHER INFORMATION.

Cosmetics Directive 7th Amendment: Restrictions may apply. A source of Eugenol (0.2%), Linalool (0.5%), Citronellol (3.0%), Limonene (9.0%), listed as sensitisers. Check maximum usage levels for skin care products.

PACKAGING:

Type	Suitability
Glass	Yes
Lacquer lined steel/tin	Yes
Aluminium	Yes
HPPE	No
F/HDPE	Yes
Other plastic	No

SHELF LIFE

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

Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.

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.

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Mr G.P. Brealey

Technical Manager

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