

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

PRODUCT NAME: Petitgrain Oil

PRODUCT CODE: 30411

SUPPLIER: The Soap Kitchen, 11a South Street, Torrington, Devon, EX38 8AA

Emergency Tel No: 01805 622944 Emergency Contact: Mr. Richard Phillips.

## 2. COMPOSITION / INFORMATION ON INGREDIENTS.

DEFINITION/BOTANICAL ORIGIN: Volatile oil obtained by the steam distillation of the flowering branches, including the twigs and leaves, of an acclimatised variety of the bitter orange tree *Citrus aurantium* L. subsp. *aurantium*.

H-No: 3301.29 CAS No: 8014-17-3 Status: natural Country of origin: Paraguay

CoE No: FEMA: 2855 Additives: none

FDA: 182.20 IFRA: see section 16 Application: aromatherapy, skincare etc

RIFM: monograph EINECS: RTECS:

INCI name: Citrus aurantium FCCIV:

## 3. HAZARDS IDENTIFICATION:

Concentrated product. Do not ingest. Observe good housekeeping procedures.

## 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 RECOMMENDED: 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.

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 FOR SPILLAGES: Remove all potential ignition sources. Contain spilled material. Cover 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
APPEARANCE:	Clear liquid.
ODOUR:	Fresh petitgrain
FLASH POINT °C:	66
SPECIFIC GRAVITY @20°C:	0.875 - 0.892
OPTICAL ROTATION @ 20°C:	-3.5° to 0°
REFRACTIVE INDEX @ 20°C:	1.453 - 1.4650
SOLUBILITY IN 70% ETHANOL @ 20°C:	Soluble 1 + 4
TYPICAL ANALYSIS BY GC/MS:	$\alpha$ -PINENE 0.1%, $\beta$ -PINENE 0.88%, SABINENE 0.19%, MYRCENE 1.5%, $\delta$ -3 CARENE 0.32%, LIMONENE 0.83%, P-CYMENE + 1,8 CINEOL 0.03%, CIS-OCIMENE 0.57%, TR-OCIMENE 1.67%, TERPINOLENE 0.34%, LINALOL OXIDE 0.1%, LINALOL 22.5%, TERPINEN-4-OL 0.09%, $\alpha$ -TERPINEOL 6%, LINALYL ACETATE 52%, NEROL 1.14%, NERAL 0.08%, GERANIOL 2.7%, GERANIAL 0.12%, GERANYL PROPIONATE 0.03%, $\alpha$ -TERPINYL ACETATE 0.13%, NERYL ACETATE 2.7%, $\beta$ -CARYOPHYLLENE 0.74%, GERANYL ACETATE 4.75%, $\alpha$ -HUMULENE 0.06%, BICYCLOGERMACRENE 0.2%, NEROLIDOL 0.04%, CARYOPHYLLENE OXIDE 0.01%.

## 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.

No Data Available

## 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):	n/a
AIR (IATA):	n/a
SEA (IMDG):	n/a
CHIP:	See section 15

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

HAZARDS: n/a  
SYMBOLS: n/a  
RISK PHRASES: n/a  
SAFETY PHRASES: n/a

**16. OTHER INFORMATION.**

Cosmetics Directive 7<sup>th</sup> Amendment: Restrictions may apply. A source of Citral, Geraniol, Limonene and Linalool, 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 a 3 monthly intervals up to a maximum life of 36 months.

**O.C. REQUIREMENTS.**

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

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