

MATERIAL SAFETY DATA SHEET.

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

Product name: **Grapefruit oil**

SUPPLIER: Norfolk Trading, 1 Rigby's Court, Norwich, NR2 1NT, UK

Telephone +44 (0)1603 610883.

2. COMPOSITION / INFORMATION ON INGREDIENTS.

DEFINITION/BOTANICAL ORIGIN: The volatile oil obtained by cold-pressing the outer peels of the fruits of *Citrus paradisi* Macfad. (Fam. *Rutaceae*).

H-No: 3301.19

CAS No: 8016-20-4

Status: Natural

CoE No: 140

FEMA: 2530

Additives: None

FDA: 182.20

IFRA: restricted

Application

RIFM: monograph

EINECS:

FCCIV:

INCI name: Citrus paradisi

3. HAZARDS IDENTIFICATION:

R10 Flammable liquid.

Moderately photo-toxic

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.

RECOMMENDED:

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, or 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. Avoid static discharges.

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: Palest yellow to greenish-yellow

APPEARANCE: Mobile liquid

ODOUR: Resembles sweet orange oil, but is more bitter.

FLASH-POINT °C: 43

SPECIFIC GRAVITY AT 20°C: 0.8520 to 0.8600

Refractive index @ 20°C: 1.4720 to 1.4790

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.

Found to be non-toxic, non-irritant and non-sensitising (Ref D.L.J. Opdyke 1974 Monographs on fragrance raw materials Food & Cosmetics Toxicology 11.)

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 31/c RID No 301; ADR RN N/2301

AIR (IATA/ICAO): Class 3 Packing group III

SEA (IMDG): 3036-1 Class 3
CHIP: See Section 15.

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

HAZARDS:

SYMBOLS:

RISK PHRASES: R10 Flammable

SAFETY PHRASES:

16. OTHER INFORMATION.

UN 1169: applies

IFRA recommends that for application to areas of skin exposed to sunshine, expressed grapefruit oil be limited to a maximum of 4% in the final product except for bath preparations, soaps and other products that can be washed off the skin. : Ref. International Fragrance Association 1992 Code of practice. Latest amendments, June 1992, International Fragrance Association, Geneva.

PACKAGING:

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

SHELF-LIFE

Min 12 months when stored within advised conditions.

Q.C. REQUIREMENTS.

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

Retest after 6 months.

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