

MATERIAL SAFETY DATA SHEET FOR
Organic Grapefruit Oil
Citrus Paradisi, Product Reference OR008
EINECS CAS 90045-43-5 USA CAS 8016-20-4

1. CHEMICAL COMPOSITION: INCLUDING HAZARDOUS COMPONENTS:

This is a natural Essential Oil produced by cold expression from the peel of the fruit. The principal constituent is d-Limonene. The oil also contains approx 0.1- 0.15% bergaptene and is, therefore, phototoxic.

The oil is classified as hazardous and is phototoxic.

2. HAZARDOUS IDENTIFICATION:

This product is required to be labelled according to the regulation 96/54/EC governing hazardous substances. The Hydrocarbon content is 95%.

3. FIRST AID PROCEDURES:

Skin Contact:	Rinse with running water. Remove contaminated clothing.
Eye Contact:	Rinse with sterile water or an approved eyewash solution for 15 minutes.
Inhalation:	Move to fresh air and rest.
Ingestion:	If swallowed do not induce vomiting, seek medical advice and show the label or container.

4. FIRE FIGHTING PROCEDURES:

Suitable Extinguishers:	Normal extinguishers can be used (CO ₂ , powders, foams, halogens).
Unsuitable Extinguishers:	Direct water jet.
Fire Hazard:	Products of combustion – Oxides of Carbon.

5. ACCIDENTAL RELEASE PROCEDURES:

Safety Clothing:	Wear clothing suitable for an emergency.
Environmental Precautions:	Contain the leak with earth or sand. Prevent from entering drains and sewers; if this cannot be done advise the local authority.
Clean Up Procedure:	Absorb spillage onto sand or earth. Transfer to a suitable container for disposal.

6. HANDLING & STORAGE PROCEDURES:

Handling:	Avoid spillage and eye contact (gloves and goggles recommended).
Ventilation:	Good general ventilation required.
Storage Conditions:	Store at ambient temperature in a dark container. Store away from oxidizing substances e.g. Bleach. Store in full containers; Stainless Steel for bulk or glass for small quantities.

7. EXPOSURE CONTROL/PERSONAL PROTECTION:

Respiratory:	Use only in well ventilated areas. Use protection in poor ventilation.
Hand Protection:	Wear gloves.
Eye Protection:	Wear goggles
Skin Protection:	Wear suitable protection clothing

8. PHYSICAL & CHEMICAL PROPERTIES:

Appearance:	Mobile Liquid.
Odour:	Grapefruit.

Colour:		Dark Orange.
Solubility:	a. Solvent –	Soluble
	b. Alcohol –	Soluble
	c. Water –	Insoluble
Boiling Point:		Not reported.
Flash Point:		51°C. C.O.C.
Specific Gravity:		20°C 0.845 – 0.865.
Vapour Pressure mm:		Not reported.

9. REACTIVITY & STABILITY:

The oil is stable under normal storage conditions. After opening, the oil is prone to air oxidation and may start to deteriorate after twelve months.

Synergistic Reaction:	Not reported.
Materials to avoid:	Oxidizing agents.
Polymerisation Hazard:	None.

10. TOXICOLOGICAL INFORMATION:

Hazardous Effects

Inhalation:	Non Hazardous.
Skin Contact:	Harmful. Phototoxic.
Eye Contact:	Irritant.
Ingestion:	Harmful if swallowed.

11. ECOLOGICAL DATA

This is a degradable product, however, do not release directly into the environment.

12. DISPOSAL METHODS:

Recover the product where possible or bury in authorised landfill sites according to local authority regulations.

13. TRANSPORT REGULATIONS:

Road:	Xn – Hazardous R10 – Flammable.
Rail:	Xn – Hazardous R10 – Flammable.
Air:	Xn – Hazardous R10 – Flammable.
UN-No:	1169
Proper Shipping Name:	Extracts, Aromatic, Liquid
IMDG Class:	3
Packing Group	III

14. REGULATORY INFORMATION:

Labels for Conveyance:	Xn. R10
Labels for Supply:	Xn. R10. R65. S62.

15. FURTHER INFORMATION:

Whilst Absolute Aromas Ltd gives the above advice in good faith, it is not intended to be a substitute for customers own testing to ascertain good safety procedures.

These regulations were designed for handling bulk products and to readily identify Toxic & Safety Data.

Safety information is under continuous review.