

MATERIAL SAFETY DATA SHEET FOR

Bergamot Oil

Citrus Bergamia, Product Reference T102
EINECS CAS 89957-91-5 USA CAS 8007-75-8

1. CHEMICAL COMPOSITION: INCLUDING HAZARDOUS COMPONENTS:

This is a natural Essential Oil produced by cold expression of the fruit. The principal constituents are α -Pinene, β -Pinene, d-Limonene and terpene waxes. Linalool, Geraniol and Linalyl Acetate are also present. The oil also contains approx 0.3- 0.5% 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 55%.

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 (CO₂, 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:	Citrus Cologne.
Colour:	Dark Green.
Solubility:	a. Solvent – Soluble
	b. Alcohol – Soluble
	c. Water – Insoluble
Boiling Point:	Not reported.
Flash Point:	50°C. C.O.C.
Specific Gravity:	20°C 0.865 – 0.875.
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
Rail:	Xn - Hazardous
Air:	Xn - Hazardous
UN-No:	UN1169
Proper Shipping Name:	Extracts, Aromatic, Liquid
IMDG Class:	3
Packing Group	III

14. REGULATORY INFORMATION:

Labels for Conveyance:	Xn - Harmful
Labels for Supply:	Xn. R10. R21. R22. R65. S62.

15. FURTHER INFORMATION:

Whilst Absolute Aromas Ltd give 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.

MATERIAL SAFETY DATA SHEET FOR
Lemongrass Oil, Guatamala

Cymbopogon Citratus, Product Reference T130
EINECS CAS 89998-14-1 USA CAS 8007-02-1

1. CHEMICAL COMPOSITION: INCLUDING HAZARDOUS COMPONENTS:

The essential oil is steam distilled from the tall tropical grass *Cymbopogon Citratus*. The main constituent is Citral.

The oil is classified as hazardous.

2. HAZARDOUS IDENTIFICATION:

This product is required to be labelled according to the regulation 96/54/EC governing hazardous substances. The hydrocarbon content is 15%.

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 immediately show label or container.

4. FIRE FIGHTING PROCEDURES:

Suitable Extinguishers: Normal extinguishers can be used (CO₂, 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:	Citrus.
Colour:	Yellow - Brown.
Solubility:	a. Solvent – Soluble b. Alcohol – Soluble c. Water – Insoluble
Boiling Point:	Not reported.
Flash Point:	65°C
Specific Gravity:	20°C 0.890 – 0.902.
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:	Hazardous.
Skin Contact:	Concentrated oil may cause skin degreasing with some irritation and darkening.
Eye Contact:	Irritant.
Ingestion:	Hazardous.

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

14. REGULATORY INFORMATION:

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

15. FURTHER INFORMATION:

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MATERIAL SAFETY DATA SHEET FOR

Lemon Oil

Citrus Limonum, Product Reference T117
EINECS CAS 84929-31-7 USA CAS Not Listed

1. CHEMICAL COMPOSITION: INCLUDING HAZARDOUS COMPONENTS:

This is a natural Essential Oil produced by cold expression of the fruit in Sicily. It consists of d-Limonene (90%), Citral and Furanocoumarines (1.5 – 2.0%).
The oil is classified as hazardous and 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 90%.

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 (CO₂, 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:	Lemon.
Colour:	Pale Yellow – Yellow Green.
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 0.843 – 0.859.
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:	Hazardous.
Skin Contact:	Concentrated oil can cause degreasing with some irritation.
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. R65.
Labels for Supply:	Xn. R10. R65. S62.

15. FURTHER INFORMATION:

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MATERIAL SAFETY DATA SHEET FOR

Rosemary Oil

Rosmarinus Officinalis, Product Reference T123

EINECS CAS 84604-14-8 USA CAS 8000-25-7

1. CHEMICAL COMPOSITION: INCLUDING HAZARDOUS COMPONENTS:

This Essential Oil is steam distilled from the bio-mass of the herb *Rosmarinus Officinalis*. It contains α -Pinene, β -Pinene, Cineole and Camphor. The oil is classified as hazardous.

2. HAZARDOUS IDENTIFICATION:

This product is required to be labelled according to the regulation 96/54/EC governing hazardous substances. The hydrocarbon content ranges between 35- 50%.

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:	Herbaceous.
Colour:	Water White.
Solubility:	a. Solvent – Soluble
	b. Alcohol – Soluble
	c. Water – Insoluble
Boiling Point:	Not reported.
Flash Point:	47°C.
Specific Gravity:	20°C 0.900 – 0.921.
Vapour Pressure mm:	Not reported.

9. REACTIVITY & STABILITY:

The oil is stable under normal storage conditions. After opening, the oil is prone to air oxidization 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:	Hazardous.
Skin Contact:	Concentrated oil can cause skin degreasing with some irritation.
Eye Contact:	Irritant.
Ingestion:	Hazardous.

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:

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In Accordance with EEC Commission directive 91/155
Orange Oil, Sweet

EINECS CAS 8028-48-6 USA CAS 8028-48-6

1. IDENTIFICATION

Product Name Sweet Orange *citrus aurantium*

Bulk Code B133

2. CHEMICAL COMPOSITION: INCLUDING HAZARDOUS COMPONENTS:

This natural essential oil is cold pressed from the peel of the fruit Citrus Aurantium. D-Limonene is the main constituent.

The oil is classified as hazardous.

3. HAZARDOUS IDENTIFICATION:

This product is required to be labelled according to the regulation 96/54/EC governing hazardous substances. The hydrocarbon content is 97%.

4. 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 immediately show label or container.

5. FIRE FIGHTING PROCEDURES:

Suitable Extinguishers: Normal extinguishers can be used (CO₂, powders, foams, halogens).
Unsuitable Extinguishers: Direct water jet.
Fire Hazard: Products of combustion – Oxides of Carbon.

6. 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.

7. 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.

8. 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

9. PHYSICAL & CHEMICAL PROPERTIES:

Appearance: Mobile Liquid.
Odour: Orange.
Colour: Orange.
Solubility: a. Solvent – Soluble
 b. Alcohol – Soluble
 c. Water – Insoluble
Boiling Point: Not reported.
Flash Point: 38°C
Specific Gravity: 20°C 0.843 – 0.850.
Vapour Pressure mm: Not reported.

10. 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.

11. TOXICOLOGICAL INFORMATION:

Hazardous Effects

Inhalation: Hazardous.
Skin Contact: Concentrated oil may cause skin degreasing with some irritation.
Eye Contact: Irritant.
Ingestion: Hazardous.

12. ECOLOGICAL DATA

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

13. DISPOSAL METHODS:

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

14. TRANSPORT REGULATIONS:

Road: ADR/RID: 3.2.
Rail: IMDG 3.
Air: I.A.T.A 3.
UN-No: 1169
Proper Shipping Name: Extracts, Aromatic, Liquid
IMDG Class: 3
Packing Group III

15. REGULATORY INFORMATION:

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

16. FURTHER INFORMATION:

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

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Safety information is under continuous review.

