



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

SECTION 1: IDENTIFICATION OF THE MIXTURE AND SUPPLIER

1.1 Product Identifier

Item	Details
Product Name	Maple Lactone Liquid
Product Description	10% Maple Lactone in Propylene Glycol
Active Material	Maple Lactone / Methyl Cyclopentenolone
Active CAS Number	80-71-7
Alternative Active CAS Number	765-70-8
Carrier	Propylene Glycol
Carrier CAS Number	57-55-6
Product Form	Liquid
Product Type	Aroma chemical dilution

1.2 Relevant Identified Uses

Professional use in:

Perfumery.

Fragrance compounding.

Aroma accords.

Industrial formulations.

Flavour manufacture where separately approved.

1.3 Uses Advised Against

Internal consumption unless specifically certified for food use.

Direct application to skin.

Use by children.

Household use by untrained persons.

Uses inconsistent with applicable legislation.



1.4 Supplier Details

Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com

Email: info@aromology.com

Telephone: +971 505197601

1.5 Emergency Contact

Contact the local emergency services, poison information centre or qualified physician.

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the Mixture

The final classification depends on the verified concentration, purity and supplier classification of the Maple Lactone component.

For a representative mixture containing 10% Maple Lactone in Propylene Glycol, the mixture may be classified as:

Hazard Class	Representative Classification
Skin Sensitisation	Category 1
Eye Irritation	Category 2

The serious-eye-damage and acute-oral hazards of neat Maple Lactone may be reduced by dilution. A formulation-specific calculation and test data are required before issuing a definitive legal classification.

2.2 Label Elements

Signal Word

WARNING

Representative Hazard Statements

H317: May cause an allergic skin reaction.



H319: Causes serious eye irritation.

Precautionary Statements

P261: Avoid breathing vapours or mist.

P264: Wash thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves and eye protection.

P302+P352: If on skin, wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs, obtain medical advice.

P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses when easy to do. Continue rinsing.

P337+P313: If eye irritation persists, obtain medical advice.

P501: Dispose of contents and container according to applicable regulations.

2.3 Other Hazards

Spilled liquid may create a slip hazard.

Heated product may release irritating vapours.

The mixture is not expected to meet PBT or vPvB criteria.

Endocrine-disrupting properties have not been established.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixture

Component	CAS Number	EC Number	Typical Concentration
Maple Lactone / Methyl Cyclopentenolone	80-71-7	201-303-2	10%
Propylene Glycol	57-55-6	200-338-0	90%

3.2 Hazardous Components



Maple Lactone is classified in representative European documentation as:

Acute Toxicity Category 4.

Serious Eye Damage Category 1.

Skin Sensitisation Category 1.

Propylene Glycol is generally not classified as hazardous under CLP in its standard commercial form.

SECTION 4: FIRST-AID MEASURES

4.1 Description of First-Aid Measures

Inhalation

Move to fresh air.

Keep at rest.

Seek medical attention if symptoms persist.

Skin Contact

Remove contaminated clothing.

Wash thoroughly with soap and water.

Obtain medical advice if irritation or rash develops.

Eye Contact

Rinse cautiously with water for at least 15 minutes.

Remove contact lenses when easy to do.

Continue rinsing.

Obtain medical advice if irritation persists.

Ingestion

Rinse mouth.



Do not induce vomiting unless directed by medical personnel.

Seek medical attention if a significant quantity is swallowed or symptoms develop.

4.2 Most Important Symptoms and Effects

Possible symptoms include:

Eye irritation.

Redness and tearing.

Skin irritation.

Allergic skin reaction.

Gastrointestinal discomfort following ingestion.

4.3 Immediate Medical Attention

Treat symptomatically.

Immediate medical care may be required for severe allergic reaction or persistent eye symptoms.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Use:

Alcohol-resistant foam.

Carbon dioxide.

Dry chemical powder.

Water spray or fog.

5.2 Unsuitable Extinguishing Media

Avoid a direct high-pressure water jet.

5.3 Special Hazards



Combustion may produce:

Carbon monoxide.

Carbon dioxide.

Irritating organic fumes.

Acrid smoke.

5.4 Advice for Firefighters

Wear self-contained breathing apparatus.

Wear complete protective clothing.

Cool fire-exposed containers with water spray.

Prevent contaminated firewater from entering drains.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Ventilate the area.

Wear gloves and eye protection.

Avoid skin and eye contact.

Remove ignition sources.

Exercise caution because spilled product may be slippery.

6.2 Environmental Precautions

Prevent entry into drains and waterways.

Avoid uncontrolled release to soil.

Contain large spills.

6.3 Containment and Cleaning



Absorb with sand, vermiculite or another inert material.

Transfer into a labelled waste container.

Clean residue with detergent and water.

Do not return spilled product to the original container.

6.4 Reference to Other Sections

Refer to Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Safe Handling

Use adequate ventilation.

Avoid prolonged or repeated skin contact.

Avoid contact with eyes.

Avoid breathing heated vapours or mist.

Do not eat, drink or smoke while handling.

Wash hands after use.

Keep containers tightly closed.

7.2 Storage Conditions

Store:

In a cool, dry and well-ventilated location.

Between approximately 15°C and 25°C where practical.

Protected from direct sunlight.

Away from strong oxidising agents.

In compatible, tightly sealed containers.



Away from food and drink.

Out of reach of children.

7.3 Specific End Uses

Professional fragrance and perfumery formulation.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

No specific occupational exposure limit has been established for the mixture.

Applicable workplace limits for Propylene Glycol aerosols or mists should be observed where established locally.

8.2 Engineering Controls

Provide adequate general ventilation.

Use local exhaust ventilation where vapour or mist may form.

Provide access to an eyewash station.

8.3 Personal Protective Equipment

Protection Type	Recommendation
Eye Protection	Safety goggles
Hand Protection	Nitrile or other chemical-resistant gloves
Skin Protection	Protective clothing or laboratory coat
Respiratory Protection	Organic vapour or mist protection where ventilation is inadequate
Hygiene	Wash hands and exposed skin after handling

8.4 Environmental Controls

Prevent uncontrolled environmental discharge.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Representative Information
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Property	Representative Information
Physical State	Liquid
Appearance	Clear, colourless to pale yellow liquid
Odour	Strong maple syrup, caramel, burnt sugar and roasted odour
Odour Threshold	Very low; not established quantitatively
pH	Not established
Freezing Point	Not established
Initial Boiling Point	Approximately 184–188 °C, predominantly based on Propylene Glycol
Flash Point	Approximately $\geq 99^{\circ}\text{C}$; formulation dependent
Flammability	Combustible liquid when strongly heated
Explosion Limits	Not available
Auto-Ignition Temperature	Not available for mixture
Decomposition Temperature	Not established
Vapour Pressure	Low at ambient temperature
Relative Density at 20 °C	Approximately 1.03–1.06
Solubility in Water	Soluble or readily dispersible
Solubility in Alcohol	Soluble
Partition Coefficient	Not established for mixture
Viscosity	Slightly viscous liquid
Particle Characteristics	Not applicable

Values are representative and must be confirmed against the batch-specific formulation.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactivity is expected under normal conditions.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Hazardous Reactions

Hazardous polymerisation is not expected.



10.4 Conditions to Avoid

Avoid:

Excessive heat.

Open flame.

Direct sunlight.

Prolonged air exposure.

Contamination.

Freezing or extreme temperature changes.

10.5 Incompatible Materials

Strong oxidising agents, strong acids and reactive chemicals.

10.6 Hazardous Decomposition Products

Carbon monoxide, carbon dioxide and irritating organic vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

The mixture has not been tested as a whole.

Maple Lactone has a representative oral LD50 of approximately 1,067 mg/kg in rats.

At a 10% concentration, the mixture's calculated acute toxicity is expected to be lower than that of the neat active material.

11.2 Skin Corrosion / Irritation

Prolonged contact may cause mild irritation.

11.3 Eye Damage / Irritation

May cause serious eye irritation.



11.4 Sensitisation

May cause an allergic skin reaction due to the Maple Lactone component.

11.5 Germ-Cell Mutagenicity

Not classified based on available representative data.

11.6 Carcinogenicity

Not classified based on available representative data.

11.7 Reproductive Toxicity

Not classified based on available representative data.

11.8 STOT – Single Exposure

Not classified.

High concentrations of heated vapour or mist may irritate the respiratory tract.

11.9 STOT – Repeated Exposure

Not classified.

11.10 Aspiration Hazard

Not expected to meet aspiration-hazard criteria.

11.11 Likely Routes of Exposure

Skin.

Eyes.

Inhalation of vapour or mist.

Accidental ingestion

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity



The mixture has not been tested as a whole.

The Maple Lactone component has representative aquatic values of approximately:

Algae 72-hour ErC50: 30.05 mg/L.

Daphnia magna 48-hour EC50: 43.74 mg/L.

At a 10% concentration, the mixture is not expected to present the same aquatic toxicity as neat Maple Lactone, but uncontrolled discharge must still be avoided.

12.2 Persistence and Degradability

Maple Lactone has been reported as readily biodegradable, with approximately 74% degradation in 28 days under OECD 301F testing.

Propylene Glycol is also generally readily biodegradable.

12.3 Bioaccumulative Potential

Low bioaccumulation potential is expected.

12.4 Mobility in Soil

The mixture is water soluble or dispersible and may be mobile in soil.

12.5 PBT and vPvB Assessment

The components are not expected to meet PBT or vPvB criteria.

12.6 Endocrine-Disrupting Properties

No confirmed information is available.

12.7 Other Adverse Effects

Large releases may increase chemical oxygen demand in water systems.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product Disposal

Dispose through an authorised waste disposal contractor.



Do not discharge into drains or waterways.

Follow local and national regulations.

Avoid mixing with incompatible waste.

13.2 Packaging Disposal

Containers may retain product residue.

Do not reuse without proper cleaning.

Recycle or dispose according to local regulations.

SECTION 14: TRANSPORT INFORMATION

Transport Requirement	Information
UN Number	Not assigned
UN Proper Shipping Name	Not regulated
Transport Hazard Class	Not applicable
Packing Group	Not applicable
Environmental Hazard	Not classified as marine pollutant
Special Precautions	Keep containers upright, closed and protected from heat
Bulk Transport	Not applicable

The representative 10% Propylene Glycol solution is generally not regulated as dangerous goods under ADR, RID, IMDG or IATA.

Final classification must be confirmed from the exact formulation and current supplier SDS.

SECTION 15: REGULATORY INFORMATION

Prepared with reference to:

Regulation (EC) No. 1907/2006 — REACH.

Regulation (EC) No. 1272/2008 — CLP.

Regulation (EU) 2020/878.



United Nations Globally Harmonized System.

Applicable occupational, environmental and transport regulations.

The user is responsible for verifying suitability and compliance for the intended application.

SECTION 16: OTHER INFORMATION

16.1 Full Text of Hazard Statements

H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H302 and H318 apply to the neat Maple Lactone component. The final mixture classification depends on formulation-specific concentration calculations and test data.

16.2 Document Information

Item	Details
Document Type	Material Safety Data Sheet
Product	Maple Lactone Liquid
Formulation	10% Maple Lactone in 90% Propylene Glycol
Version	1.0
Issue Date	21 July 2026

16.3 Disclaimer

This MSDS applies only to the representative formulation:

10% Maple Lactone in 90% Propylene Glycol.

It does not apply to Maple Lactone supplied:

At a different concentration.

In DPG.



In Triethyl Citrate.

In ethanol.

In another carrier.

As a molten neat liquid.

The exact legal classification must be recalculated whenever the concentration or solvent changes.

The manufacturer's current formulation-specific SDS and analytical documentation shall always take precedence.

This product is intended for trained professional use and is not intended for internal consumption or use by children.

Authorised by:

Fozia Khot
Director