



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

Item	Details
Product Name	Lyrall Schiff Base
Chemical Name	Methyl Anthranilate/Lyrall Schiff Base
Alternative Names	Lyrame; Lyrame Super; Schiff Base Lyrall; Methyl Anthranilate/Lyrall; Leerall Schiff Base
IUPAC Name	Methyl 2-[[4-(4-hydroxy-4-methylpentyl)-1-cyclohex-3-enyl]methylideneamino]benzoate
CAS Number	67634-12-2
EC Number	266-816-6
Molecular Formula	C ₂₁ H ₂₉ NO ₃
Molecular Weight	343.47 g/mol
Product Type	Synthetic Schiff Base Fragrance Material
Recommended Use	Professional perfumery and fragrance manufacture
Uses Advised Against	Internal consumption, flavour use, direct undiluted skin application and consumer use without appropriate safety assessment

The material is the Schiff-base reaction product of methyl anthranilate and Lyrall/HMPCC. It is commercially identified as CAS 67634-12-2 and EC 266-816-6.

SUPPLIER DETAILS

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SECTION 2: HAZARD IDENTIFICATION

REPRESENTATIVE GHS/CLP CLASSIFICATION



A verified manufacturer-specific harmonised classification was not located for CAS 67634-12-2. Pending receipt of the original supplier's SDS, the following precautionary classification is recommended:

Hazard Class	Representative Classification
Skin Sensitisation	Category 1
Skin Irritation	Category 2
Eye Irritation	Category 2
Hazardous to the Aquatic Environment	Chronic Category 2

SIGNAL WORD

WARNING

REPRESENTATIVE HAZARD STATEMENTS

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H411: Toxic to aquatic life with long-lasting effects.

The Schiff base is manufactured from HMPCC/Lyrar, a recognised skin sensitiser. The degree of hazard depends partly on the purity of the Schiff base and the amount of residual unreacted HMPCC and methyl anthranilate. IFRA documentation specifically treats HMPCC contributions from its Schiff bases as relevant to compliance calculations.

PRECAUTIONARY STATEMENTS

- P261: Avoid breathing vapours or mist.
- P264: Wash hands and exposed skin thoroughly after handling.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release into the environment.
- P280: Wear protective gloves, protective clothing and eye protection.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses where easy to do. Continue rinsing.
- P333+P313: If skin irritation or rash occurs, obtain medical advice.
- P337+P313: If eye irritation persists, obtain medical advice.
- P391: Collect spillage.
- P501: Dispose of contents and container in accordance with local regulations.

OTHER HAZARDS

- May contain residual unreacted HMPCC/Lyrar and methyl anthranilate.



- Schiff bases may hydrolyse under acidic or moisture-rich conditions, potentially releasing starting materials.
- Not suitable for EU cosmetic use unless regulatory compliance and residual HMPCC content have been confirmed by the original manufacturer.
- Combustible material, although it is not normally classified as a readily flammable liquid.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE IDENTITY

Component	CAS Number	Representative Content
Methyl Anthranilate/Lyrar Schiff Base	67634-12-2	Typically $\geq 90\%$
Residual Methyl Anthranilate	134-20-3	Batch dependent
Residual HMPCC/Lyrar	31906-04-4 / 51414-25-6	Batch dependent
Water or reaction by-products	—	Trace

The precise composition depends on manufacturing conditions and whether the material is supplied neat or diluted. Some commercial versions are sold at 50% in DEP or another carrier; this MSDS applies to the undiluted or high-assay Schiff base unless the product label states otherwise.

SECTION 4: FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air and keep comfortable for breathing. Obtain medical attention if coughing, irritation, dizziness or breathing discomfort persists.

SKIN CONTACT

Remove contaminated clothing. Wash the affected area thoroughly with soap and water for at least 15 minutes. Obtain medical advice if irritation, redness or an allergic rash develops.

EYE CONTACT

Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses where easy to do. Continue rinsing and seek medical attention if irritation persists.

INGESTION



Rinse the mouth. Do not induce vomiting unless instructed by medical personnel. Contact a physician or poison centre if a significant quantity has been swallowed.

MOST IMPORTANT SYMPTOMS AND EFFECTS

- Skin redness and irritation.
- Allergic contact dermatitis.
- Eye irritation, tearing or discomfort.
- Nausea or gastrointestinal discomfort following ingestion.
- Respiratory irritation from heated vapours or mist.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

- Alcohol-resistant foam.
- Dry chemical powder.
- Carbon dioxide.
- Water fog.

UNSUITABLE EXTINGUISHING MEDIA

Do not use a direct high-pressure water jet, as it may spread burning material.

SPECIFIC FIRE HAZARDS

The product is combustible and may burn when strongly heated. Thermal decomposition may generate:

- Carbon monoxide.
- Carbon dioxide.
- Nitrogen oxides.
- Irritating organic fumes.

PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS



- Ventilate the affected area.
- Avoid contact with skin and eyes.
- Wear suitable gloves, goggles and protective clothing.
- Remove unnecessary personnel.
- Eliminate ignition sources where practicable.

ENVIRONMENTAL PRECAUTIONS

Prevent the material from entering drains, soil, sewers or natural waterways.

CLEAN-UP METHODS

- Contain the spill with sand, vermiculite or another inert absorbent.
- Collect into a suitable labelled waste container.
- Wash the contaminated area with detergent and water.
- Dispose of waste through an authorised contractor.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING

- Use with adequate ventilation.
- Avoid breathing concentrated vapour or mist.
- Avoid prolonged or repeated skin contact.
- Do not eat, drink or smoke while handling.
- Wash hands thoroughly after use.
- Prevent contamination with acids, oxidising agents and moisture.
- Use clean, dry and compatible equipment.

STORAGE CONDITIONS

Store:

- In tightly closed original containers.
- In a cool, dry and well-ventilated location.
- Protected from direct sunlight and moisture.
- Away from strong acids, strong oxidising agents and excessive heat.
- Away from food, beverages and animal feed.
- Preferably between 15 °C and 25 °C.

Schiff bases may darken or partially decompose during prolonged exposure to heat, moisture or acidic conditions.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

No specific occupational exposure limit has been established for CAS 67634-12-2.

ENGINEERING CONTROLS

Use local exhaust ventilation where vapour, aerosol or heated material may be generated.

PERSONAL PROTECTIVE EQUIPMENT

Protection Type	Recommendation
Eye Protection	Chemical safety goggles
Hand Protection	Nitrile or other chemically resistant gloves
Skin Protection	Laboratory coat or protective clothing
Respiratory Protection	Organic-vapour respirator where ventilation is inadequate
Hygiene Measures	Wash hands after handling; remove contaminated clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Representative Information
Physical State	Viscous liquid
Appearance	Bright yellow to amber-yellow liquid
Odour	Sweet floral, orange blossom, muguet, honey-like
Molecular Formula	$C_{21}H_{29}NO_3$
Molecular Weight	343.47 g/mol
Relative Density at 25 °C	Approximately 1.063–1.071
Refractive Index at 20 °C	Approximately 1.526–1.535
Boiling Point	Approximately 497–498 °C, estimated
Flash Point	Above 100 °C, representative
Vapour Pressure	Low at ambient temperature
Water Solubility	Practically insoluble or very slightly soluble
Solubility	Soluble in alcohol and perfumery solvents
Log P	Approximately 3.4–4.1, estimated

Published fragrance-material databases describe the product as a bright yellow viscous liquid with a specific gravity near 1.06–1.07, refractive index near 1.526–1.535 and flash point above 100 °C. These values are representative rather than batch-certified.



SECTION 10: STABILITY AND REACTIVITY

REACTIVITY

May hydrolyse slowly in the presence of moisture, acids or incompatible formulation conditions.

CHEMICAL STABILITY

Stable under recommended storage and handling conditions.

CONDITIONS TO AVOID

- Excessive heat.
- Prolonged exposure to air or moisture.
- Direct sunlight.
- Acidic conditions.
- Ignition sources.

INCOMPATIBLE MATERIALS

- Strong acids.
- Strong oxidising agents.
- Strong reducing agents.
- Reactive carbonyl or amine materials where unintended reactions may occur.

HAZARDOUS DECOMPOSITION PRODUCTS

- Carbon monoxide.
- Carbon dioxide.
- Nitrogen oxides.
- Irritating organic vapours.
- Residual methyl anthranilate or HMPCC under hydrolytic conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE

- Skin contact.
- Eye contact.



- Inhalation of vapours or mist.
- Accidental ingestion.

ACUTE TOXICITY

No complete, verified acute-toxicity dataset was located for the Schiff-base substance itself.

SKIN CORROSION/IRRITATION

Prolonged or repeated contact may cause irritation.

SERIOUS EYE DAMAGE/IRRITATION

Direct contact may cause significant eye irritation.

SKIN SENSITISATION

The product should be treated as potentially sensitising. Its precursor HMPCC/Lyrar is a documented fragrance contact allergen, and residual precursor content may materially affect sensitisation risk.

GERM-CELL MUTAGENICITY

Insufficient substance-specific data available.

CARCINOGENICITY

Not classified from the information available.

REPRODUCTIVE TOXICITY

Insufficient substance-specific data available.

STOT—SINGLE EXPOSURE

No classification established.

STOT—REPEATED EXPOSURE

No classification established.

ASPIRATION HAZARD

No classification established from available substance-specific data.



SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

Treat as hazardous to aquatic organisms until batch-specific environmental data are available.

PERSISTENCE AND DEGRADABILITY

No complete verified dataset was located for the Schiff base.

BIOACCUMULATIVE POTENTIAL

The estimated log P indicates some potential for bioaccumulation.

MOBILITY IN SOIL

Expected to have low water mobility because of limited water solubility.

OTHER ADVERSE EFFECTS

Avoid uncontrolled discharge into drains, groundwater or surface water.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of unused material, absorbents and contaminated packaging through an authorised chemical-waste contractor.

Do not discharge into drains or the environment.

Empty containers may retain hazardous residues and should not be reused for food, beverages or household products.

SECTION 14: TRANSPORT INFORMATION

Transport Item	Representative Status
UN Number	Not assigned from available information
UN Proper Shipping Name	Not regulated as dangerous goods under representative conditions



Transport Hazard Class	Not assigned
Packing Group	Not assigned
Marine Pollutant	Verify using the current manufacturer SDS
Special Precautions	Protect from heat, leakage and incompatible materials

Because the representative flash point is above 100°C, the neat material is not normally treated as a Class 3 flammable liquid. Final transport classification must nevertheless be verified against the manufacturer's SDS, composition and the regulations applicable to the shipment.

SECTION 15: REGULATORY INFORMATION

This document has been prepared with reference to:

- Regulation (EC) No. 1907/2006 concerning REACH.
- Regulation (EC) No. 1272/2008 concerning classification, labelling and packaging.
- Regulation (EU) 2020/878.
- United Nations Globally Harmonized System.

EU COSMETIC REGULATORY NOTE

HMPCC, commonly known as Lyrar, is prohibited as a fragrance ingredient in EU cosmetic products. Since this Schiff base is manufactured from HMPCC and may contain residual or releasable HMPCC, it must not be considered suitable for EU cosmetic use unless the original manufacturer provides adequate regulatory and analytical documentation demonstrating compliance.

IFRA documentation also requires HMPCC contributed through relevant Schiff bases to be included when calculating total HMPCC exposure.

SECTION 16: OTHER INFORMATION

Item	Details
Document Type	Material Safety Data Sheet
Version	1.0
Issue Date	21 July 2026
Basis	Representative published substance and fragrance-industry information

FULL TEXT OF HAZARD STATEMENTS



- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H411: Toxic to aquatic life with long-lasting effects.

DISCLAIMER

This MSDS provides representative safety information for Lyrar Schiff Base, CAS 67634-12-2. It is not based on a supplied batch-specific manufacturer SDS.

Actual hazards may vary according to:

- Product purity.
- Residual HMPCC/Lyrar concentration.
- Residual methyl anthranilate concentration.
- Added solvents or carriers.
- Manufacturing process.
- Storage history.

The original manufacturer's current Safety Data Sheet, composition statement and regulatory documentation shall always take precedence.

Authorised by:

Fozia Khot
Director