



## SAFETY DATA SHEET (SDS)

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

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### SECTION 1: Identification

| Parameter         | Details                                                           |
|-------------------|-------------------------------------------------------------------|
| Product Name      | Patchoulol Crystals Natural                                       |
| Alternative Names | Patchouli Alcohol; Patchoulol; Natural Patchouli Alcohol Crystals |
| Chemical Name     | Patchouli Alcohol                                                 |
| Chemical Family   | Tricyclic Sesquiterpene Alcohol                                   |
| Botanical Source  | <i>Pogostemon cablin</i> (Blanco) Benth.                          |
| Plant Part        | Leaves                                                            |
| Product Type      | Natural Isolate / Aroma Chemical                                  |
| Purity            | Minimum 99.5%                                                     |
| CAS Number        | 5986-55-0                                                         |
| EC Number         | 227-807-2                                                         |
| Molecular Formula | C <sub>15</sub> H <sub>26</sub> O                                 |
| Molecular Weight  | 222.37 g/mol                                                      |
| Physical Form     | Crystals / Crystalline Powder                                     |
| Origin            | Natural                                                           |
| Grade             | Premium Perfumery Grade                                           |

#### 1.2 Relevant Identified Uses

- Professional perfumery
- Fine-fragrance formulation
- Woody and patchouli accords
- Chypre, amber and oriental accords
- Fragrance fixative
- Cosmetic fragrance manufacture
- Soap and detergent fragrance
- Home-fragrance products
- Research and product development

#### 1.3 Uses Advised Against

- Internal consumption
- Pharmaceutical or medicinal use
- Food or flavour use unless separately approved
- Direct undiluted application to skin
- Use by children
- Use without a finished-product safety assessment



## 1.4 Supplier Details

**Aromology Trading LLC**  
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**Telephone:** +971 505197601

## 1.5 Emergency Telephone Number

Contact the nearest Poison Control Centre, emergency medical service or qualified medical professional.

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## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance

Representative classification according to Regulation (EC) No. 1272/2008:

| Hazard Class                                   | Category   | Hazard Statement |
|------------------------------------------------|------------|------------------|
| Hazardous to the Aquatic Environment – Chronic | Category 2 | H411             |

### 2.2 Label Elements

Signal Word

No signal word required under the representative classification.

**Hazard Pictogram**

GHS09 – Environment

**Hazard Statement**

- H411: Toxic to aquatic life with long-lasting effects.

**Precautionary Statements**

- P261: Avoid breathing dust.
- P264: Wash hands thoroughly after handling.
- P273: Avoid release to the environment.
- P280: Wear protective gloves and eye protection.
- P391: Collect spillage.



- **P501:** Dispose of contents and container in accordance with applicable regulations.

## 2.3 Other Hazards

- Dust may cause mechanical irritation to the eyes or respiratory tract.
- Heated molten product may cause thermal burns.
- Spilled crystals may create a slipping hazard.
- The product is not expected to meet PBT or vPvB criteria based on available representative information.
- No endocrine-disrupting properties have been established for this substance.
- Natural origin does not eliminate the need for appropriate industrial hygiene and finished-product safety assessment.

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## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substance

| Component                              | CAS Number                | EC Number      | Concentration |
|----------------------------------------|---------------------------|----------------|---------------|
| Natural Patchoulol / Patchouli Alcohol | 5986-55-0                 | 227-807-2      | ≥99.5%        |
| Naturally Derived Minor Constituents   | Not individually assigned | Not applicable | ≤0.5%         |

### 3.2 Chemical Identity

| Parameter         | Details                                                 |
|-------------------|---------------------------------------------------------|
| Chemical Class    | Tricyclic Sesquiterpene Alcohol                         |
| Molecular Formula | C <sub>15</sub> H <sub>26</sub> O                       |
| Molecular Weight  | 222.37 g/mol                                            |
| Natural Source    | Patchouli essential oil                                 |
| Purification      | Fractional separation, crystallisation and purification |

The precise minor-constituent profile may vary according to the botanical source and production batch.

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## SECTION 4: FIRST-AID MEASURES

### 4.1 Description of First-Aid Measures

#### After Inhalation

- Move the affected person to fresh air.
- Keep the person warm and at rest.
- Obtain medical advice if coughing, headache or breathing discomfort persists.

#### After Skin Contact



- Remove contaminated clothing.
- Wash the affected area thoroughly with soap and water.
- Obtain medical advice if redness or irritation develops.
- For contact with molten material, cool the affected area immediately with plenty of water.
- Do not remove solidified material from burned skin.
- Obtain urgent medical attention for thermal burns.

#### **After Eye Contact**

- Rinse cautiously with clean water for at least 15 minutes.
- Remove contact lenses if present and easy to do.
- Continue rinsing while holding the eyelids open.
- Obtain medical advice if irritation persists.

#### **After Ingestion**

- Rinse the mouth with water.
- Do not induce vomiting unless directed by a medical professional.
- Seek medical advice if a significant quantity has been swallowed or symptoms occur.
- Never give anything by mouth to an unconscious person.

### **4.2 Most Important Symptoms and Effects**

Possible symptoms include:

- Mechanical eye irritation
- Mild skin irritation
- Respiratory discomfort from dust
- Nausea or gastrointestinal discomfort after ingestion
- Thermal burns from molten material

### **4.3 Indication of Immediate Medical Attention**

Treat symptomatically.

Immediate medical attention is required for:

- Significant ingestion
- Persistent respiratory symptoms
- Severe eye exposure
- Contact with molten product

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## **SECTION 5: FIRE-FIGHTING MEASURES**

### **5.1 Suitable Extinguishing Media**



Use:

- Carbon dioxide
- Dry chemical powder
- Alcohol-resistant foam
- Water fog
- Sand for small fires

## 5.2 Unsuitable Extinguishing Media

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

## 5.3 Specific Hazards

Although the product is not normally classified as readily flammable, it is combustible when sufficiently heated.

Combustion or thermal decomposition may produce:

- Carbon monoxide
- Carbon dioxide
- Dense smoke
- Irritating organic vapours
- Unidentified decomposition products

Dust dispersed in air may present a combustible-dust hazard under certain industrial conditions.

## 5.4 Advice for Firefighters

- Wear self-contained breathing apparatus.
- Wear full protective clothing.
- Cool exposed containers using water spray.
- Prevent contaminated fire-fighting water from entering drains or waterways.
- Approach the fire from upwind where practical.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions

- Ensure adequate ventilation.
- Avoid generating or breathing dust.
- Avoid contact with skin and eyes.
- Wear suitable gloves and eye protection.
- Keep unnecessary personnel away.
- Remove ignition sources where dust may become airborne.
- Exercise caution because spilled crystals may create slippery surfaces.



## 6.2 Environmental Precautions

- Prevent release into drains, soil, groundwater and surface water.
- Contain significant releases.
- Notify the appropriate authority if an uncontrolled environmental release occurs.

## 6.3 Methods for Containment and Cleaning

- Sweep or vacuum carefully without generating dust.
- Use explosion-protected vacuum equipment where industrial dust concentrations may occur.
- Place collected material in a sealed and labelled waste container.
- For molten spills, allow the material to cool and solidify before collection.
- Clean residual material using detergent and water.
- Dispose of waste through an authorised contractor.

## 6.4 Reference to Other Sections

See:

- Section 8 for personal protective equipment
- Section 13 for disposal information

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## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

- Handle in a clean and well-ventilated area.
- Avoid generating dust.
- Avoid breathing dust or vapours from heated material.
- Avoid prolonged or repeated skin contact.
- Prevent contact with eyes.
- Wear suitable gloves and eye protection.
- Do not eat, drink or smoke in handling areas.
- Wash hands thoroughly after handling.
- Use clean, dry and compatible dispensing equipment.
- Keep the container closed when not in use.
- Avoid release to the environment.
- Prevent contamination with water or incompatible materials.

### 7.2 Conditions for Safe Storage

Store:

- In tightly sealed original or compatible containers
- In a cool, dry and well-ventilated location
- Protected from direct sunlight



- Protected from moisture
- Away from heat and ignition sources
- Away from strong oxidising agents
- Preferably between 5°C and 20°C
- Under hygienic conditions suitable for perfumery raw materials

Suitable packaging may include:

- Amber glass
- Aluminium
- Stainless steel
- Fluorinated HDPE
- Suitably lined metal containers

Natural crystals may soften or melt when exposed to temperatures above their melting range. Recrystallisation after cooling does not necessarily indicate deterioration.

### 7.3 Specific End Uses

For professional fragrance and cosmetic formulation.

Finished-product use levels must be established through an appropriate IFRA review and safety assessment.

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

No occupational exposure limit has been established for Patchoulol.

Dust and vapour exposure should be maintained as low as reasonably practicable.

### 8.2 Engineering Controls

- Provide adequate general ventilation.
- Use local exhaust ventilation where dust is generated.
- Provide extraction where the material is heated or melted.
- Provide accessible eyewash facilities.
- Provide suitable washing facilities.

### 8.3 Personal Protective Equipment

#### Eye and Face Protection

Wear chemical safety glasses or goggles.

Use a face shield when handling molten material.



## Hand Protection

Wear chemical-resistant gloves, such as:

- Nitrile rubber
- Neoprene
- Butyl rubber

Use heat-resistant gloves when handling molten material or heated containers.

## Skin and Body Protection

Wear suitable protective clothing to prevent repeated or prolonged contact.

## Respiratory Protection

Normally not required where adequate ventilation is provided.

Use suitable particulate respiratory protection where:

- Dust is generated
- Ventilation is inadequate
- Bulk powder is transferred

Use an approved organic-vapour respirator where significant vapours are generated by heating.

## Hygiene Measures

- Wash hands and exposed skin thoroughly after handling.
- Remove contaminated clothing.
- Wash contaminated workwear before reuse.
- Keep away from food, beverages and animal feed.

## Environmental Exposure Controls

Prevent uncontrolled release into drains, soil and waterways.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| Property                     | Representative Information                                    |
|------------------------------|---------------------------------------------------------------|
| Physical State               | Solid                                                         |
| Appearance                   | Crystals or crystalline powder                                |
| Colour                       | White to pale cream or light yellow                           |
| Odour                        | Clean, woody, earthy, powdery, sweet and mildly camphoraceous |
| Odour Threshold              | Not determined                                                |
| Melting Point                | 54–58 °C                                                      |
| Representative Melting Point | Approximately 56 °C                                           |



|                           |                                                     |
|---------------------------|-----------------------------------------------------|
| Boiling Point             | Not reliably established for normal atmospheric use |
| Flammability              | Combustible when strongly heated                    |
| Lower Explosive Limit     | Not determined                                      |
| Upper Explosive Limit     | Not determined                                      |
| Flash Point               | Not reliably determined / batch-dependent           |
| Auto-Ignition Temperature | Not determined                                      |
| Decomposition Temperature | Not determined                                      |
| pH                        | Not applicable                                      |
| Vapour Pressure           | Very low at ambient temperature                     |
| Water Solubility          | Insoluble or very slightly soluble                  |
| Solubility in Ethanol     | Soluble                                             |
| Relative Density          | Approximately 1.02–1.04                             |
| Molecular Formula         | $C_{15}H_{26}O$                                     |
| Molecular Weight          | 222.37 g/mol                                        |
| Optical Rotation          | Typically negative; batch-dependent                 |
| Purity by GC              | Minimum 99.5%                                       |
| Particle Characteristics  | Crystalline solid                                   |

All physical values are representative. Batch-specific Certificate of Analysis results take precedence.

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reactivity is expected under normal handling and storage conditions.

### 10.2 Chemical Stability

Stable when stored tightly sealed and protected from heat, light, moisture and contamination.

### 10.3 Possibility of Hazardous Reactions

Hazardous polymerisation is not expected.

The product may react with strong oxidising agents.

### 10.4 Conditions to Avoid

Avoid:

- Excessive heat
- Direct sunlight



- Flames and sparks
- Dust generation
- Prolonged exposure to air
- Moisture contamination
- Repeated melting and cooling
- Cross-contamination

### **10.5 Incompatible Materials**

- Strong oxidising agents
- Strong acids
- Strong alkalis
- Reactive halogen compounds

### **10.6 Hazardous Decomposition Products**

Thermal decomposition may produce:

- Carbon monoxide
- Carbon dioxide
- Dense smoke
- Irritating organic vapours

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## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1 Information on Hazard Classes**

#### **Acute Toxicity**

Complete batch-specific acute-toxicity data are not available.

The material is not generally expected to have high acute toxicity under normal professional handling conditions.

#### **Skin Corrosion / Irritation**

Not classified as corrosive.

Prolonged or repeated contact may cause irritation in susceptible individuals.

#### **Serious Eye Damage / Irritation**

Dust or direct contact may cause temporary mechanical irritation.

#### **Respiratory or Skin Sensitisation**



No universal sensitisation classification has been established for high-purity Patchoulol.

Persons sensitive to fragrance materials should avoid direct exposure.

#### **Germ-Cell Mutagenicity**

No classification established based on available representative information.

#### **Carcinogenicity**

No classification established based on available representative information.

#### **Reproductive Toxicity**

No classification established based on available representative information.

#### **Specific Target Organ Toxicity – Single Exposure**

Dust may cause temporary respiratory discomfort.

#### **Specific Target Organ Toxicity – Repeated Exposure**

No classification established based on available representative information.

#### **Aspiration Hazard**

Not applicable to the product in its normal solid crystalline form.

Aspiration-hazard evaluation may be required if the product is supplied dissolved or molten in another carrier.

### **11.2 Likely Routes of Exposure**

- Skin contact
- Eye contact
- Inhalation of dust
- Inhalation of vapours from heated material
- Accidental ingestion

### **11.3 Symptoms Related to Exposure**

- Temporary eye irritation
- Skin discomfort
- Coughing or throat irritation from dust
- Nausea following significant ingestion
- Thermal injury from molten material



#### **11.4 Endocrine-Disrupting Properties**

No endocrine-disrupting properties have been established for this substance.

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### **SECTION 12: ECOLOGICAL INFORMATION**

#### **12.1 Toxicity**

The product is classified as:

**Toxic to aquatic life with long-lasting effects.**

#### **12.2 Persistence and Degradability**

Complete biodegradation data are not available.

Release to the environment should be avoided.

#### **12.3 Bioaccumulative Potential**

The substance is hydrophobic and may have the potential to bioaccumulate.

#### **12.4 Mobility in Soil**

The product has very low water solubility and may adsorb to soil and sediment.

#### **12.5 PBT and vPvB Assessment**

The substance is not expected to meet PBT or vPvB criteria based on available representative information.

#### **12.6 Endocrine-Disrupting Properties**

No confirmed endocrine-disrupting properties have been identified.

#### **12.7 Other Adverse Effects**

Avoid uncontrolled release into the environment.

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### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### **13.1 Waste Treatment Methods**



- Dispose of unused material through an authorised chemical-waste contractor.
- Do not discharge into drains, waterways or soil.
- Incineration may be appropriate where legally permitted.
- Dispose of contaminated cleaning materials as chemical waste.
- Recover or recycle uncontaminated material where legally and technically feasible.

### 13.2 Contaminated Packaging

Dispose of or recycle packaging in accordance with local regulations after appropriate cleaning.

Empty containers may retain product residues.

Do not reuse contaminated packaging for food, beverages or household purposes.

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## SECTION 14: TRANSPORT INFORMATION

| Transport Parameter     | Details                                            |
|-------------------------|----------------------------------------------------|
| UN Number               | UN 3077                                            |
| UN Proper Shipping Name | Environmentally Hazardous Substance, Solid, N.O.S. |
| Technical Name          | Patchouli Alcohol / Patchoulol                     |
| Transport Hazard Class  | 9                                                  |
| Packing Group           | III                                                |
| Environmental Hazard    | Yes                                                |
| Marine Pollutant        | Yes                                                |
| ADR / RID               | Class 9, UN 3077                                   |
| IMDG                    | Class 9, UN 3077                                   |
| IATA                    | Class 9, UN 3077                                   |
| EmS Code                | F-A, S-F                                           |
| Bulk Transport          | Not intended for bulk maritime transport           |

Transport classification must be confirmed against:

- The original manufacturer's current SDS
- Quantity shipped
- Packaging configuration
- Applicable special provisions
- Carrier requirements
- National dangerous-goods regulations

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## SECTION 15: REGULATORY INFORMATION



## 15.1 Safety, Health and Environmental Regulations

Prepared with reference to:

- Regulation (EC) No. 1907/2006 – REACH
- Regulation (EU) 2020/878
- Regulation (EC) No. 1272/2008 – CLP
- Regulation (EC) No. 1223/2009 on cosmetic products
- Regulation (EU) 2023/1545 concerning fragrance-allergen labelling
- Current IFRA Standards
- ADR
- RID
- IMDG
- IATA dangerous-goods provisions

## 15.2 Chemical Safety Assessment

A formal chemical safety assessment has not been conducted by Aromology Trading LLC for this material.

Finished-product manufacturers are responsible for:

- Reviewing the original manufacturer's current SDS
- Confirming batch-specific purity
- Confirming applicable hazard classification
- Reviewing current IFRA Standards
- Assessing fragrance-allergen requirements
- Determining the safe finished-product use level
- Conducting the finished cosmetic-product safety assessment
- Meeting local registration and labelling requirements

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## SECTION 16: OTHER INFORMATION

### 16.1 Full Text of Hazard Statements

- H411: Toxic to aquatic life with long-lasting effects.

### 16.2 Abbreviations

#### Abbreviation Meaning

|     |                                                                                     |
|-----|-------------------------------------------------------------------------------------|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS | Chemical Abstracts Service                                                          |
| CLP | Classification, Labelling and Packaging Regulation                                  |
| EC  | European Community                                                                  |



|       |                                                                              |
|-------|------------------------------------------------------------------------------|
| GC    | Gas Chromatography                                                           |
| IATA  | International Air Transport Association                                      |
| IFRA  | International Fragrance Association                                          |
| IMDG  | International Maritime Dangerous Goods Code                                  |
| PBT   | Persistent, Bioaccumulative and Toxic                                        |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals         |
| RID   | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| vPvB  | Very Persistent and Very Bioaccumulative                                     |

### 16.3 Recommended Shelf Life

24 months from the manufacturing date when stored unopened under recommended conditions.

### 16.5 Revision

Version 1.0

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## DISCLAIMER

This Material Safety Data Sheet has been prepared using representative chemical, physical and commercial safety information for Patchoulol Crystals Natural 99.5% – Premium.

The product is a high-purity natural isolate. Its exact physical characteristics, minor-constituent profile, optical rotation and analytical purity may vary according to:

- Botanical origin
- Source patchouli oil
- Distillation conditions
- Fractionation process
- Purification method
- Crystallisation conditions
- Storage
- Individual production batch

The stated purity of 99.5% should be confirmed by the batch-specific Certificate of Analysis.

The original manufacturer's current:

- Safety Data Sheet
- Certificate of Analysis
- GC chromatogram
- Natural-origin declaration
- IFRA statement
- Allergen declaration
- Transport classification

shall take precedence wherever available.

This product is supplied exclusively as a professional perfumery raw material. It is not intended for internal consumption, medicinal use, food use or direct undiluted skin application.



Aromology Trading LLC accepts no responsibility for inappropriate handling, storage, formulation, transport, labelling or use outside the recommended professional applications.

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**AUTHORISED BY**

Fozia Khot

Director

Aromology Trading LLC