



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

Product Name: Coumarin Crystalline Powder

Alternative Names: Natural Coumarin, Coumarin Natural Crystals

Chemical Name: 2H-1-Benzopyran-2-one

INCI Name: Coumarin

CAS Number: 91-64-5

EC Number: 202-086-7

Molecular Formula: C₉ H₆ O₂

Molecular Weight: 146.14 g/mol

Product Type: Natural Aromatic Isolate

Source: Naturally isolated from botanical materials (typically Tonka Bean, Sweet Clover, or Cinnamon-derived sources)

Appearance: Crystalline Powder

Grade: Premium Perfumery Grade

Recommended Use: Professional perfumery, cosmetic, fragrance and flavour raw material.

Supplier

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

SECTION 2 – HAZARD IDENTIFICATION

GHS Classification

Based on available toxicological data, natural coumarin is classified as:

- Acute Toxicity (Oral) – Category 4
- Eye Irritation – Category 2A
- Specific Target Organ Toxicity (Repeated Exposure) – Category 2 (Liver)



Signal Word

Warning

Hazard Statements

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- H373 May cause damage to organs (liver) through prolonged or repeated exposure if swallowed.

Precautionary Statements

- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves and eye protection.
- P301+P312 IF SWALLOWED: Call a POISON CENTRE if you feel unwell.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
- P337+P313 If eye irritation persists: Get medical advice.
- P314 Get medical advice if feeling unwell.
- P501 Dispose of contents/container according to local regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	Information
Product	Coumarin Crystalline Powder
Chemical Name	Coumarin
CAS Number	91-64-5
EC Number	202-086-7
Purity	≥99% Natural Coumarin

SECTION 4 – FIRST AID MEASURES

Inhalation: Move exposed person to fresh air. Seek medical advice if symptoms persist.

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Flush cautiously with water for at least 15 minutes. Seek medical advice if irritation persists.



Ingestion: Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media

- Water spray
- Carbon dioxide
- Dry chemical powder
- Alcohol-resistant foam

Hazardous Combustion Products

- Carbon monoxide
 - Carbon dioxide
 - Irritating organic vapours
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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Avoid creating dust.

Wear suitable protective equipment.

Collect mechanically while avoiding dust generation.

Prevent release into drains and waterways.

SECTION 7 – HANDLING AND STORAGE

Avoid generating airborne dust.

Use adequate ventilation.

Store in tightly closed containers.

Protect from moisture, excessive heat and direct sunlight.

Recommended Storage Temperature: 15–25 °C

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- Chemical safety goggles
- Nitrile gloves
- Laboratory coat
- Dust mask or particulate respirator where dust generation occurs
- Local exhaust ventilation

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	White crystalline powder
Odour	Sweet, warm, tonka bean, hay-like, vanilla
Melting Point	68–70 °C
Boiling Point	Approximately 297 °C
Flash Point	Approximately 150 °C
Density	0.94 g/cm ³
Solubility in Water	Slightly soluble
Solubility	Soluble in ethanol and organic solvents

SECTION 10 – STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Avoid:

- Strong oxidising agents
- Excessive heat
- Moisture
- Strong acids and alkalis

Hazardous decomposition products include carbon monoxide and carbon dioxide.

SECTION 11 – TOXICOLOGICAL INFORMATION



Harmful if swallowed.

May cause eye irritation.

Repeated excessive oral exposure may affect liver function.

Low dermal toxicity under normal industrial use.

SECTION 12 – ECOLOGICAL INFORMATION

No significant environmental hazard is expected when handled responsibly.

Avoid uncontrolled release into waterways.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of product and packaging through an authorised waste disposal contractor in accordance with local regulations.

SECTION 14 – TRANSPORT INFORMATION

Regulation	Status
UN Number	Not Regulated
ADR/RID	Not Regulated
IMDG	Not Regulated
IATA	Not Regulated

SECTION 15 – REGULATORY INFORMATION

Prepared in accordance with:

- GHS Revision 9
- OSHA Hazard Communication Standard (29 CFR 1910.1200)
- Regulation (EC) No. 1907/2006 (REACH)
- Regulation (EU) 2020/878



EU Cosmetic Allergen: Coumarin is one of the fragrance allergens requiring declaration in cosmetic products when present above the applicable regulatory thresholds.

SECTION 16 – OTHER INFORMATION

Natural Coumarin Crystalline Powder is a high-purity aromatic isolate naturally obtained from botanical sources such as tonka beans (*Dipteryx odorata*), sweet clover (*Melilotus officinalis*), or other coumarin-rich plant materials. It possesses a characteristic sweet hay, tonka bean, almond and vanilla-like aroma and is widely used in fine fragrance, fougère, oriental, tobacco, amber and gourmand compositions. Due to its excellent substantivity, coumarin also serves as an effective fixative and modifier in professional perfumery.

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