



SAFETY DATA SHEET (SDS)

Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) 2020/878 and GHS.

Anisyl Nitrile

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Product Name: Anisyl Nitrile

Chemical Name: 4-Methoxybenzonitrile

Synonyms: Anisyl Nitrile; Anisonitrile; p-Anisonitrile; p-Methoxybenzonitrile; 4-Cyanoanisole

INCI Name: 4-Methoxybenzonitrile

CAS Number: 874-90-8

EC / EINECS Number: 212-871-6

Molecular Formula: C₈ H₇ NO

Molecular Weight: 133.15 g/mol

Manufacturer: Synarome

Origin: France

Appearance: Solid / Powder

Product Type: Aroma Chemical

Suggested Use: Perfumery

Olfactive Profile: Tonka bean, spicy, balsamic, powdery, musky

Recommended Use: Professional perfumery ingredient.

Supplier

Aromology Trading LLC

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Dubai, United Arab Emirates

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SECTION 2: HAZARDS IDENTIFICATION

2.1 GHS / CLP Classification

For a conservative SDS classification:

Hazard Class	Classification
Acute Toxicity – Oral	Category 4



Hazard Class	Classification
Acute Toxicity – Dermal	Category 4
Acute Toxicity – Inhalation	Category 4

Signal Word: WARNING

Recent supplier SDS information supports H302, while Fisher Scientific's 2024 SDS reports H302, H312 and H332. Sigma-Aldrich classifies the substance as Acute Toxicity Category 4 oral and dermal. Because supplier classifications differ, the broader conservative classification is used here.

2.2 Hazard Statements

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

2.3 Precautionary Statements

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection.

P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330: Rinse mouth.

P302+P352: IF ON SKIN: Wash with plenty of water.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/doctor if you feel unwell.

P362+P364: Take off contaminated clothing and wash it before reuse.

P501: Dispose of contents/container in accordance with applicable regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	EC Number	Concentration
4-Methoxybenzonitrile	874-90-8	212-871-6	100%

Molecular Formula: C₈ H₇ NO

Molecular Weight: 133.15 g/mol

The substance identity and identifiers are supported by PubChem and NIST.

SECTION 4: FIRST-AID MEASURES



4.1 Inhalation

Move the affected person to fresh air and keep comfortable for breathing. If breathing is difficult or symptoms persist, obtain medical attention.

4.2 Skin Contact

Remove contaminated clothing. Wash affected skin thoroughly with soap and plenty of water. Obtain medical attention if symptoms occur.

4.3 Eye Contact

Rinse cautiously with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical advice if irritation develops or persists.

4.4 Ingestion

Rinse mouth thoroughly with water. Do not give anything by mouth to an unconscious person. Contact a POISON CENTER or physician if unwell.

4.5 Most Important Symptoms

Exposure may produce adverse effects following swallowing, skin contact or inhalation. Specific clinical symptoms have not been adequately established for this material.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Use:

- Carbon dioxide (CO₂)
- Dry chemical powder
- Alcohol-resistant foam
- Water spray where appropriate

5.2 Unsuitable Extinguishing Media

Do not use a direct high-pressure water jet on burning material.

5.3 Special Hazards

Combustion or thermal decomposition may produce carbon monoxide, carbon dioxide, nitrogen oxides and irritating/toxic fumes.

5.4 Firefighter Protection



Wear suitable protective clothing and self-contained breathing apparatus where necessary.

5.5 Flash Point

Published fragrance-industry reference data report approximately 57.2°C (135°F, closed cup). This is a reference value and should not be treated as an Aromology batch-specific analytical result.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Ensure adequate ventilation. Avoid formation and inhalation of dust. Avoid contact with skin and eyes. Wear appropriate personal protective equipment.

6.2 Environmental Precautions

Prevent uncontrolled release into drains, waterways and soil.

6.3 Containment and Cleaning

Carefully collect spilled material without generating dust. Transfer to a suitable, closed and labelled waste container.

Clean the affected area thoroughly and dispose of contaminated material according to applicable regulations.

SECTION 7: HANDLING AND STORAGE

7.1 Safe Handling

Avoid inhalation of dust.
Avoid contact with skin and eyes.
Provide adequate ventilation.
Wear appropriate protective equipment.
Do not eat, drink or smoke while handling.
Wash thoroughly after handling.

7.2 Storage

Store in a tightly closed container.
Keep in a cool, dry and well-ventilated area.
Protect from excessive heat and incompatible materials.
Supplier information for 4-Methoxybenzonitrile commonly specifies room-temperature storage.



SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Occupational Exposure Limits

No substance-specific occupational exposure limit has been established in the reviewed product information.

8.2 Engineering Controls

Provide adequate general ventilation or local exhaust ventilation where dust may be generated.

8.3 Personal Protective Equipment

Eye Protection: Safety glasses or chemical splash goggles.

Hand Protection: Suitable chemical-resistant gloves, such as nitrile gloves.

Skin Protection: Appropriate protective clothing.

Respiratory Protection: Use suitable particulate respiratory protection if dust is generated or ventilation is inadequate.

Hygiene: Wash hands thoroughly after handling. Do not eat, drink or smoke in areas where the material is handled.

Sigma-Aldrich recommends eye protection, gloves and particulate respiratory protection for the substance.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Information
Physical State	Solid
Appearance	Powder / crystalline solid
Odour	Characteristic
Olfactive Profile	Tonka, balsamic, powdery, spicy, musky
Molecular Formula	C ₈ H ₇ NO
Molecular Weight	133.15 g/mol
Melting Point	57–59 °C
Boiling Point	256–257 °C
Flash Point	Approx. 57.2 °C – published reference value
Vapour Pressure	Approx. 0.015 mmHg at 25 °C – reference value
Water Solubility	Limited
log P	Approx. 1.7
pH	Not applicable / not determined
Auto-Ignition Temperature	Data not available
Decomposition Temperature	Data not available

Sigma-Aldrich reports a melting point of 57–59 °C and boiling point of 256–257 °C; the fragrance-industry reference gives vapour pressure and flash-point information.



SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reaction is expected under recommended conditions of handling and storage.

10.2 Chemical Stability

Stable under normal recommended storage conditions.

10.3 Possibility of Hazardous Reactions

No hazardous polymerisation is expected under normal conditions.

10.4 Conditions to Avoid

Avoid excessive heat and conditions that may generate airborne dust.

10.5 Incompatible Materials

Strong oxidising agents.

10.6 Hazardous Decomposition Products

Thermal decomposition or combustion may generate carbon oxides, nitrogen oxides and irritating/toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

Oral Toxicity: Classified Acute Toxicity Category 4.

Dermal Toxicity: Conservatively classified Acute Toxicity Category 4.

Inhalation Toxicity: Conservatively classified Acute Toxicity Category 4.

Supplier classifications differ. Sigma-Aldrich identifies Category 4 oral and dermal toxicity, while Fisher Scientific reports H302, H312 and H332.

11.2 Skin Corrosion / Irritation

Insufficient product-specific information to assign an additional skin-irritation classification.

11.3 Serious Eye Damage / Irritation

Insufficient product-specific information to assign an additional eye-damage classification.

11.4 Respiratory or Skin Sensitisation

No reliable product-specific classification established from the reviewed data.

11.5 Germ Cell Mutagenicity

Data insufficient for classification.

11.6 Carcinogenicity

Data insufficient for classification.

11.7 Reproductive Toxicity

Data insufficient for classification.



11.8 STOT – Single Exposure

Data insufficient for classification.

11.9 STOT – Repeated Exposure

Data insufficient for classification.

11.10 Aspiration Hazard

Not classified based on the reviewed information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Aquatic Toxicity

Product-specific quantitative aquatic toxicity information is insufficient to establish an additional environmental classification in this SDS.

12.2 Persistence and Degradability

Data not available.

12.3 Bioaccumulative Potential

Insufficient data available.

12.4 Mobility in Soil

Data not available.

12.5 PBT / vPvB Assessment

No product-specific assessment available.

12.6 Environmental Precautions

Avoid uncontrolled release into drains, surface water, groundwater and soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents and containers in accordance with applicable local, regional and national regulations.

Do not discharge concentrated material into drains or natural waterways.

Contaminated packaging and absorbent materials should be disposed of appropriately.

SECTION 14: TRANSPORT INFORMATION

Published SDS sources are not consistent on transport classification. Some current suppliers list no UN number/classification, whereas older generic SDS data classify nitriles under toxic-liquid transport entries. Accordingly, a transport classification should not be invented for the Synarome material without its product-specific transport/SDS information.

Transport Information	Status
UN Number	To be confirmed from manufacturer SDS



Transport Information	Status
UN Proper Shipping Name	To be confirmed
Transport Hazard Class	To be confirmed
Packing Group	To be confirmed
ADR / RID	To be confirmed
IMDG	To be confirmed
IATA	To be confirmed
Marine Pollutant	Not established

Transport classification should be verified against the current Synarome SDS and applicable transport regulations before shipment.

SECTION 15: REGULATORY INFORMATION

Product: Anisyl Nitrile – Synarome – Spicy Tonka

Chemical Name: 4-Methoxybenzonitrile

CAS Number: 874-90-8

EC / EINECS Number: 212-871-6

Molecular Formula: C₈ H₇ NO

Manufacturer: Synarome

Origin: France

Product Type: Aroma Chemical

Use: Perfumery

4-Methoxybenzonitrile is identified under EC number 212-871-6. Fisher Scientific's regulatory information reports no applicable REACH Annex XIV authorization, Annex XVII restriction or Candidate List/SVHC status for the substance in its 2024 SDS.

SECTION 16: OTHER INFORMATION

16.1 Hazard Statements

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

Where classifications differ between published supplier SDSs, a conservative safety approach has been applied. Where Synarome-specific or batch-specific analytical information could not be verified, values have not been presented as certified Aromology batch data.

Authorised by:

Fozia Khot

Director