



SAFETY DATA SHEET (SDS)

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

NEROLIONE

SECTION 1: IDENTIFICATION

Parameter	Details
Product Name	Nerolione
Manufacturer	Symrise
Symrise Product No.	600321
INCI Name	1-(3-Methyl-benzofuran-2-yl)ethanone
CAS Number	23911-56-0
REACH Registration	01-0000017540-77
Molecular Formula	C ₁₁ H ₁₀ O ₂
Molecular Weight	174.2 g/mol
Chemical Class	Ketone
Product Type	Perfumery Aroma Chemical
Olfactive Family	Floral / Green / Orange Peel / Fruity

Symrise directly confirms Product 600321, CAS 23911-56-0, REACH registration, MW and chemical class.

Identified Uses

Professional fragrance ingredient for fine fragrance, orange blossom accords, neroli accords, floriental/oriental fragrances, soaps, shampoos, body care, detergents, fabric care and household fragrance.

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: HAZARDS IDENTIFICATION

For a regulatory SDS issued to customers, the exact GHS/CLP classification should be taken from the latest regional Symrise SDS for Product 600321.



I verified that current distributors provide an SDS specifically for Nerolione / CAS 23911-56-0, and one distributor flags the material as hazardous for transport, but the accessible search results do not expose the complete manufacturer Section 2 classification.

I therefore would not fabricate H-statements, pictograms, or a signal word and attribute them to Symrise.

General Professional Precautions

- Avoid skin and eye contact.
- Avoid breathing concentrated vapour or dust.
- Use adequate ventilation.
- Wear protective gloves.
- Wear safety glasses during filling and transfer.
- Prevent uncontrolled environmental release.
- Wash thoroughly after handling.

Regulatory note: Insert the current Symrise Section 2 classification from the regional manufacturer SDS before issuing this document as a formal workplace SDS.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Specification
Nerolione / methyl benzofuranyl ketone	23911-56-0	≥98% GC

Chemical Formula: $C_{11}H_{10}O_2$
Molecular Weight: 174.2 g/mol
Chemical Class: Ketone
Stabilizer: No
Occurrence in Nature: No

Symrise specifies minimum 98% GC purity, no stabilizer and no occurrence in nature.

SECTION 4: FIRST-AID MEASURES

Inhalation: Move affected person to fresh air. Keep comfortable for breathing. Obtain medical attention if symptoms persist.

Skin Contact: Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical attention if irritation develops.

Eye Contact: Rinse cautiously with plenty of clean water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical attention if unwell.



SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Flash Point: >100°C

This value is directly specified by Symrise.

Hazardous Combustion Products

Thermal decomposition or combustion may generate:

- Carbon monoxide
- Carbon dioxide
- Irritating organic fumes
- Smoke

Firefighters should use suitable protective equipment and self-contained breathing apparatus where necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

- Ensure adequate ventilation.
- Avoid contact with skin and eyes.
- Wear suitable protective gloves.
- Wear eye protection.
- Keep unnecessary personnel away.

Environmental Precautions

Prevent concentrated material from entering drains, waterways or soil.

Cleanup

For solid material, collect mechanically where possible.

For molten/liquid material, absorb using:



- Sand
- Vermiculite
- Diatomaceous earth
- Universal chemical absorbent

Transfer collected material into appropriately labelled waste containers.

SECTION 7: HANDLING AND STORAGE

Safe Handling

- Use adequate ventilation.
- Avoid direct skin contact.
- Avoid eye contact.
- Avoid breathing concentrated vapour or dust.
- Keep containers closed when not in use.
- Wash thoroughly after handling.
- Use clean, dry dispensing equipment.

Storage

Store:

- Cool and dry
- In tightly closed containers
- Protected from direct sunlight
- Away from excessive heat
- Away from incompatible chemicals

Nerolione can be liquid to crystalline depending on temperature, consistent with Symrise's official physical description.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Provide adequate general ventilation and local exhaust where dust, aerosol or heated vapour may develop.

Personal Protective Equipment

Protection	Recommendation
Eyes	Safety glasses / chemical goggles
Hands	Chemical-resistant gloves



Protection	Recommendation
Body	Protective work clothing
Respiratory	Suitable respiratory protection where ventilation is inadequate

No specific occupational exposure limit should be inserted without the current regional manufacturer SDS.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Colourless to yellow
Physical State	Liquid to crystalline
Odour	Powerful floral, orange blossom / orange peel
CAS Number	23911-56-0
Molecular Formula	$C_{11}H_{10}O_2$
Molecular Weight	174.2 g/mol
GC Purity	Minimum 98%
Flash Point	>100 °C
Boiling Point	286.2 °C
Log P (Kow)	2.52
Chemical Class	Ketone
Stabilizer	No
Occurrence in Nature	No
Threshold in Air	0.0010 µg/L

These values are directly reported in Symrise's official Nerolione technical documentation.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability

Stable under recommended storage and handling conditions.

Conditions to Avoid

Avoid excessive heat, contamination and incompatible chemicals.

Incompatible Materials

Strong oxidising agents.

Hazardous Decomposition Products

Combustion may generate carbon monoxide, carbon dioxide and irritating organic fumes.

Application Stability



Symrise reports Nerolione testing across:

- Eau de Toilette
- Soap
- Antiperspirant roll-on
- Deodorant stick
- Shampoo/shower gel
- Hair conditioner
- Body lotion
- Fabric softener
- Heavy-duty liquid detergent
- Concentrated detergent powder
- Rimblock
- APC cleaner
- Citric-acid cleaner

Symrise's application data show that stability varies by base and pH.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

- Skin
- Eyes
- Inhalation
- Accidental ingestion

The exact numerical acute-toxicity, irritation, sensitisation, mutagenicity, reproductive-toxicity and STOT endpoints should be copied from the latest regional Symrise SDS.

No toxicological classification should be attributed to Symrise without verification of that SDS.

SECTION 12: ECOLOGICAL INFORMATION

Avoid uncontrolled release of concentrated material into:

- Surface water
- Groundwater
- Drains
- Sewers
- Soil

The current regional Symrise SDS should be used for definitive aquatic toxicity, biodegradation and environmental classification data.



SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents and contaminated packaging in accordance with applicable local and national regulations.

Do not discharge concentrated material into drains or waterways.

Use an authorised chemical-waste facility where required.

SECTION 14: TRANSPORT INFORMATION

A current commercial listing for Nerolione – Symrise, CAS 23911-56-0 flags the product as hazardous material for transport.

However, I would not assign a UN number, hazard class or packing group without the current Symrise SDS.

Before shipment, verify:

- UN Number
 - ADR/RID
 - IMDG
 - IATA
 - Hazard class
 - Packing group
 - Environmental hazard
 - Marine pollutant status
 - Limited-quantity exemptions
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SECTION 15: REGULATORY INFORMATION

Relevant regulatory frameworks include:

- Regulation (EC) No. 1907/2006 – REACH
- Regulation (EC) No. 1272/2008 – CLP
- Regulation (EU) 2020/878
- Regulation (EC) No. 1223/2009 – Cosmetics
- Regulation (EU) 2023/1545 – Fragrance Allergen Labelling
- Applicable IFRA Standards

REACH Registration: 01-0000017540-77

CAS Number: 23911-56-0

Symrise Product: 600321

SECTION 16: OTHER INFORMATION



OLFACTIVE PROFILE

Nerolione is an exceptionally powerful:

- Orange blossom
- Floral
- Neroli
- Orange peel
- Fresh aromatic
- Floriental booster

It is highly diffusive and can provide significant impact at very low dosage. It is particularly useful for boosting orange-blossom character and adding peel-like effects to orange accords.

AVAILABLE SYMRISE DILUTIONS

Symrise also lists:

Product	Product No.
Nerolione	600321
Nerolione 10% DEP	188810
Nerolione 10% DPG	188811
Nerolione 10% TEC	188812

DISCLAIMER

This is a supplier-style 16-section SDS compiled from official Symrise technical information. It is not an original Symrise-issued SDS.

Authorised by:
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Director