



SAFETY DATA SHEET (SDS)

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

MANDARIL

SECTION 1: IDENTIFICATION

Parameter	Details
Product Name	Mandaril
Manufacturer	Symrise
Symrise Product No.	600135
CAS Numbers	124358-45-8
REACH Registration	01-0000016870-69
Molecular Formula	C13H21N
Molecular Weight	191.3 g/mol
Chemical Class	Nitrile
Product Type	Perfumery Aroma Chemical
Odour Family	Citrus / Mandarin / Coriander Leaf

Symrise's current sales program confirms Product No. 600135 and the multiple-CAS identity.

RECOMMENDED USE

Professional fragrance ingredient for fine fragrance, citrus accords, mandarin and orange notes, fruity fragrances, orange blossom compositions, soaps, detergents, personal care and household fragrance.

Symrise Recommended Use Level: 0.01–2%
This is an olfactive recommendation, not an IFRA maximum.

SUPPLIER

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SECTION 2: HAZARDS IDENTIFICATION



For a customer-facing SDS, the definitive GHS/CLP classification should be copied from the latest regional Symrise SDS for Product 600135. I could verify the official technical identity and physical specification, but I did not locate a current public Symrise SDS carrying a complete Section 2 classification.

Therefore, I would not invent H-statements or pictograms and present them as Symrise data.

General Professional Handling Precautions

- Avoid contact with skin and eyes.
- Avoid breathing concentrated vapour or mist.
- Use adequate ventilation.
- Wear suitable protective gloves.
- Wear safety glasses or goggles.
- Prevent uncontrolled environmental release.
- Wash thoroughly after handling.

Important: Insert the current Symrise CLP/GHS classification here when the original manufacturer SDS is available.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mandaril is a technical mixture of tridecadiennitrile isomers.

Component / Isomer Group	CAS No.
Tridecadiennitrile isomer	124358-45-8
Tridecadiennitrile isomer	124071-40-5
Tridecadiennitrile isomer	124071-42-7
Tridecadiennitrile isomer	124071-43-8
Tridecadiennitrile isomer	134769-33-8
Tridecadiennitrile isomer	134849-13-1

Total GC Purity: Minimum 95% – sum of isomers

Symrise specifically describes the chemical structure as a combination of (E)-2,12-, (E)-3,12- and (Z)-3,12-tridecadiennitrile.

A current distributor specification also identifies the material as a mixture of 2,12/3,12-tridecadiennitriles and gives >95% sum of four isomers.

SECTION 4: FIRST-AID MEASURES



Inhalation: Move affected person to fresh air. Keep at rest. Obtain medical advice if symptoms persist.

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

Eye Contact: Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Obtain medical advice if irritation persists.

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

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Flash Point: >100 °C – official Symrise technical specification.

A distributor specification gives a more specific representative value of approximately 101 °C.

Hazardous Combustion Products

Thermal decomposition may generate:

- Carbon monoxide
- Carbon dioxide
- Nitrogen-containing decomposition products
- Irritating fumes and smoke

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Ensure adequate ventilation.

Wear suitable PPE.

Avoid skin and eye contact.

Contain spill and absorb using:

- Sand



- Vermiculite
- Diatomaceous earth
- Universal chemical absorbent

Transfer collected material into appropriately labelled containers for disposal.
Prevent concentrated material from entering drains, soil or waterways.

SECTION 7: HANDLING AND STORAGE

Handling

- Use adequate ventilation.
- Avoid breathing vapour or aerosol.
- Avoid skin and eye contact.
- Wear appropriate PPE.
- Wash hands after handling.
- Keep containers closed when not in use.
- Use clean, dry dispensing equipment.

Storage

Store:

- In tightly closed containers
- In a cool location
- In a dry location
- Protected from direct light
- Away from excessive heat
- Away from incompatible materials

A current specification recommends quality verification when material has been stored for more than 24 months.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Provide adequate general ventilation and local exhaust where concentrated vapours may develop.

Personal Protective Equipment

Protection	Recommendation
Eye Protection	Safety glasses / chemical goggles
Hand Protection	Chemical-resistant gloves



Protection	Recommendation
Skin Protection	Protective work clothing
Respiratory Protection	Suitable organic-vapour protection where ventilation is inadequate

Maintain good industrial hygiene.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear, light yellow to yellow liquid
Odour	Citrus, mandarin, orange, coriander leaf
Chemical Class	Nitrile
Molecular Formula	C ₁₃ H ₂₁ N
Molecular Weight	191.3 g/mol
GC Purity	Minimum 95% – sum of isomers
Density @ 20 °C	Approx. 0.851–0.861 g/mL
Refractive Index n _D 20	Approx. 1.4560–1.4630
Boiling Point	296.4 °C – Symrise
Flash Point	>100 °C – Symrise
Log P (Kow)	4.91
Water Solubility	Insoluble
Solubility in Ethanol	Soluble
Vapour Pressure	<0.1 mbar at 20 °C
Stabilizer	Yes
Occurrence in Nature	No
Renewable Factor	84.6%
Biodegradability	79.0% – readily biodegradable

The appearance, ≥95% GC, >100 °C flash point, MW 191.3, BP 296.4 °C, log P 4.91, stabilizer, renewable factor and biodegradability are directly stated by Symrise. Density, refractive index, water/ethanol solubility and vapour-pressure values are supported by the current distributor specification.

STABILIZER

Symrise confirms that a stabilizer is present but its public technical sheet does not identify it. A distributor specification reports approximately 0.03% BHT. This should be verified against the actual Symrise batch specification before being declared as manufacturer-certified composition.



SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions.

Conditions to Avoid

- Excessive heat
- Prolonged exposure to light
- Contamination
- Strong oxidising conditions

Incompatible Materials

Strong oxidising agents.

Mandaril is generally stable across many fragrance applications, but supplier information indicates poor stability in bleach, so hypochlorite systems should be avoided unless specifically tested.

SECTION 11: TOXICOLOGICAL INFORMATION

The exact toxicological endpoints and numerical values should be taken from the current Symrise SDS for Product 600135.

Potential routes of exposure include:

- Skin contact
- Eye contact
- Inhalation
- Accidental ingestion

Avoid repeated or prolonged occupational exposure.

No LD50, sensitisation classification, mutagenicity, reproductive-toxicity or STOT values should be attributed to Symrise without the current manufacturer SDS.

SECTION 12: ECOLOGICAL INFORMATION

Symrise reports:

Biodegradability: 79.0% – Readily biodegradable

Log P (Kow): 4.91

Renewable Factor: 84.6%

Despite its ready biodegradability, concentrated material should not be intentionally released into the environment.



SECTION 13: DISPOSAL CONSIDERATIONS

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

Do not discharge concentrated material into:

- Drains
- Sewers
- Surface waters
- Groundwater

Use an authorised chemical-waste contractor where required.

SECTION 14: TRANSPORT INFORMATION

The definitive transport classification must be taken from the latest regional Symrise SDS for Product No. 600135.

Verify before shipment:

- UN Number
- ADR/RID
- IMDG
- IATA
- Transport hazard class
- Packing group
- Marine pollutant status
- Environmentally hazardous substance status

Do not assign a UN number based solely on this supplier-style SDS.

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: 01-0000016870-69



SECTION 16: OTHER INFORMATION

OLFACTIVE PROFILE

Mandaril has a powerful:

- Mandarin
- Orange
- Citrus
- Coriander-leaf
- Green
- Fruity
- Juicy character

Symrise states that it enhances fruity fragrances, boosts juicy mandarin and orange notes, works well with orange-blossom components, and provides excellent strength and tenacity.

RECOMMENDED PERFUMERY USE

0.01–2%

This is Symrise's recommended formulation range, not an IFRA maximum.

DISCLAIMER

This is a supplier-style 16-section SDS prepared from official Symrise technical information and supporting public specification data. It is not the original Symrise-issued Safety Data Sheet.

Authorised by:
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Director