



SAFETY DATA SHEET (SDS)

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

CLARITONE®

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Parameter	Details
Product Name	Claritone®
Manufacturer	Symrise
Symrise Product No.	600285
Chemical Name	2,4,4,7-Tetramethyloct-6-en-3-one
CAS Number	74338-72-0
REACH Registration No.	01-0000016903-68
Molecular Formula	C ₁₂ H ₂₂ O
Molecular Weight	182.3 g/mol
Chemical Class	Ketone
Product Type	Perfumery Aroma Chemical
Olfactive Family	Citrus / Fruity / Herbal

1.2 Relevant Identified Uses

Recommended for professional fragrance applications including:

Fine fragrance
Citrus accords
Grapefruit accords
Fruity fragrances
Grape accords
Clary sage accords
Fougère fragrances
Functional fragrances
Personal-care fragrances
Household fragrances

Uses Advised Against

Direct undiluted consumer use
Internal consumption
Use outside professionally formulated products without appropriate safety assessment



1.3 Supplier

Aromology Trading LLC
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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification

Claritone® is an environmentally hazardous fragrance material.

Principal Hazard Classification

Hazardous to the Aquatic Environment – Chronic Hazard

Signal Word

Warning

Environmental Hazard

The material must not be discharged directly into drains, soil, surface water or groundwater.

2.2 Label Elements

Hazard Pictogram

GHS09 – Environment

Precautionary Measures

- Avoid release to the environment.
 - Collect spillage.
 - Dispose of contents/container in accordance with applicable regulations.
 - Use appropriate personal protective equipment during professional handling.
-

2.3 Other Hazards

Claritone® is a combustible organic liquid.

The product has a flash point of approximately:

83°C



Avoid excessive heating and contact with ignition sources.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Component	CAS No.	Concentration
2,4,4,7-Tetramethyloct-6-en-3-one	74338-72-0	Minimum 97% – sum of isomers

Chemical Formula

C₁₂H₂₂O

Molecular Weight

182.3 g/mol

Chemical Class

Ketone

Claritone® is supplied without an added stabilizer according to Symrise product information.

SECTION 4: FIRST-AID MEASURES

4.1 Description of First-Aid Measures

Inhalation

Move the exposed person to fresh air.
Keep at rest in a position comfortable for breathing.
Seek medical advice if symptoms develop or persist.

Skin Contact

Remove contaminated clothing.
Wash affected skin thoroughly with soap and water.
If irritation or other symptoms develop, obtain medical advice.

Eye Contact

Immediately rinse cautiously with clean water for several minutes.
Remove contact lenses where present and easy to do.
Continue rinsing.
Seek medical attention if irritation persists.

Ingestion

Rinse mouth thoroughly.
Do not induce vomiting unless directed by medical personnel.
Seek medical advice if a significant quantity has been swallowed or symptoms develop.

4.2 Most Important Symptoms and Effects

Potential symptoms following significant exposure may include:



- Skin discomfort
 - Eye irritation
 - Respiratory discomfort from concentrated vapour
 - Gastrointestinal discomfort following ingestion
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4.3 Medical Attention

Treat symptomatically.

Provide the attending physician with the product SDS where possible.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Use:

- Alcohol-resistant foam
 - Carbon dioxide (CO₂)
 - Dry chemical powder
 - Water fog
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5.2 Unsuitable Extinguishing Media

Do not use a concentrated high-pressure water jet directly on burning liquid.

5.3 Special Hazards

Combustion or thermal decomposition may generate:

- Carbon monoxide
 - Carbon dioxide
 - Irritating organic vapours
 - Smoke
-

5.4 Advice for Firefighters

Firefighters should use:

- Self-contained breathing apparatus
- Suitable protective clothing



Cool exposed containers with water spray where safe to do so.

Prevent contaminated firefighting water from entering drains or waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

- Ensure adequate ventilation.
- Avoid skin and eye contact.
- Avoid breathing concentrated vapour.
- Remove unnecessary personnel.
- Eliminate ignition sources.

Use suitable gloves and eye protection.

6.2 Environmental Precautions

Do not allow product to enter:

- Drains
- Sewers
- Soil
- Surface water
- Groundwater

The material is environmentally hazardous and spills should be contained promptly.

6.3 Methods for Cleaning Up

Contain the spill.

Absorb using:

- Sand
- Vermiculite
- Universal absorbent
- Other inert non-combustible material

Transfer contaminated absorbent into suitable labelled containers for disposal.

Wash the affected area after bulk material has been removed.



SECTION 7: HANDLING AND STORAGE

7.1 Safe Handling

- Handle according to good industrial hygiene practice.
- Avoid unnecessary skin and eye contact.
- Avoid breathing concentrated vapours.
- Use adequate ventilation.
- Keep containers closed when not in use.
- Do not eat, drink or smoke while handling.
- Wash hands thoroughly after handling.

7.2 Storage Conditions

Store:

- In original or chemically compatible containers
- Tightly closed
- In a cool and dry area
- In a well-ventilated location
- Protected from direct sunlight
- Away from excessive heat
- Away from strong oxidising agents

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

No specific occupational exposure limit has been established in the available product documentation.

8.2 Engineering Controls

Provide adequate general or local exhaust ventilation where concentrated vapours may accumulate.

8.3 Personal Protective Equipment

Protection	Recommendation
Eye Protection	Chemical safety glasses
Hand Protection	Chemical-resistant gloves, preferably nitrile
Skin Protection	Suitable laboratory coat or protective clothing



Protection	Recommendation
Respiratory Protection	Normally unnecessary with adequate ventilation; use suitable organic-vapour protection where ventilation is inadequate

8.4 Hygiene Measures

- Wash hands after handling.
- Remove contaminated clothing.
- Do not eat or drink in handling areas.
- Avoid prolonged or repeated exposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical State	Liquid
Appearance	Clear, colourless liquid
Odour	Citrus, grapefruit, clary sage, grape
Chemical Formula	C ₁₂ H ₂₂ O
Molecular Weight	182.3 g/mol
GC Purity	Minimum 97% (sum of isomers)
Boiling Point	Approximately 213.2 °C
Flash Point	Approximately 83 °C
Log P (Kow)	Approximately 3.84
Vapour Pressure	Approximately 0.01 mmHg at 20 °C
Stabilizer	None
Occurrence in Nature	No
Chemical Class	Ketone
Water Solubility	Low / practically insoluble

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

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

10.2 Chemical Stability

Stable under normal recommended storage conditions.

10.3 Possibility of Hazardous Reactions

No hazardous polymerisation is expected.



10.4 Conditions to Avoid

Avoid:

- Excessive heat
- Flames
- Sparks
- Prolonged direct sunlight

10.5 Incompatible Materials

Avoid strong oxidising agents.

10.6 Hazardous Decomposition Products

Thermal decomposition may produce:

- Carbon monoxide
- Carbon dioxide
- Irritating organic vapours

SECTION 11: TOXICOLOGICAL INFORMATION

Claritone® is intended for professional formulation use.

Available safety information should be considered together with the concentration used in the finished product.

Potential Routes of Exposure

- Skin
- Eyes
- Inhalation
- Accidental ingestion

General Toxicological ConsiderationsEndpoint	Assessment
Acute Oral Toxicity	Refer to current manufacturer SDS
Acute Dermal Toxicity	Refer to current manufacturer SDS
Skin Irritation	Avoid prolonged contact
Eye Irritation	Direct contact should be avoided
Skin Sensitisation	Refer to current manufacturer SDS
Mutagenicity	No classification stated in available product sheet
Carcinogenicity	No classification stated in available product sheet
Reproductive Toxicity	No classification stated in available product sheet



Finished cosmetic products require their own safety assessment.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Claritone® presents an aquatic environmental hazard.

Avoid uncontrolled release.

12.2 Persistence and Degradability

Refer to current manufacturer environmental data.

12.3 Bioaccumulative Potential

Log Kow: approximately 3.84

This value indicates appreciable lipophilic character.

12.4 Mobility in Soil

Low water solubility may influence environmental distribution.

12.5 Other Adverse Effects

Prevent environmental contamination during handling, filling, storage and disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of unused material and contaminated absorbents through an authorised waste contractor.

Do not discharge into:

- Drains
- Sewers
- Surface water
- Soil

Empty containers may retain product residue and should be handled accordingly.

Follow all applicable national and local waste regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Transport Classification

UN Number

UN 3082

Proper Shipping Name



ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(2,4,4,7-Tetramethyl-6-octen-3-one)

Transport Hazard Class: 9

Packing Group: III

14.2 IMDG

Parameter	Classification
UN Number	UN3082
Class	9
Packing Group	III
Marine Pollutant	Yes
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.

SECTION 15: REGULATORY INFORMATION

Applicable regulatory frameworks may include:

- Regulation (EC) No. 1907/2006 – REACH
- Regulation (EC) No. 1272/2008 – CLP
- Regulation (EU) 2020/878
- IFRA Standards
- Regulation (EC) No. 1223/2009 where used in cosmetics
- Regulation (EU) 2023/1545 where relevant to fragrance-allergen assessment
- Applicable national chemical and environmental regulations

REACH Registration

01-0000016903-68

SECTION 16: OTHER INFORMATION

Olfactive Description

Claritone® has a highly distinctive:

- Citrus character
- Grapefruit freshness
- Clary sage effect
- Grape nuance
- Green freshness
- Sparkling character



It provides a distinctive sparkling, champagne-like effect and can add freshness to citrus-aldehydic accords.

It is particularly useful for creating natural clary-sage effects in fougère compositions and functions as a multifaceted booster from the top into the heart of a fragrance.

Recommended Perfumery Use Level

0.5–10%

This is Symrise's perfumery-use recommendation and is not an IFRA maximum-use limit.

DISCLAIMER

This SDS is a supplier-style safety document prepared from current publicly available Symrise technical information and available safety documentation for Claritone®.

It is not the original Symrise-issued SDS and should not be represented as such.

For regulatory submission, workplace hazard communication, dangerous-goods shipment, or customer compliance purposes, the latest original Symrise Safety Data Sheet for the exact commercial product and destination market should be consulted. Where any difference exists, the original current Symrise SDS takes precedence.

Authorised by:

Fozia Khot
Director