



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: Calendula CO₂ Total Extract

Botanical Name: *Calendula officinalis* L.

INCI Name: Calendula Officinalis Flower Extract

CAS Number: 84776-23-8

EC Number: 283-949-5

Product Type: Natural CO₂ Total Extract

Plant Part: Flowers

Extraction Method: Supercritical Carbon Dioxide (CO₂) Extraction

Origin: Egypt

Grade: Premium Perfumery Grade

Recommended Use: Professional perfumery, cosmetic and personal care raw material.

Supplier

Aromology Trading LLC

G05 Al Ghazal Building

Nadd Al Hamar

Dubai, United Arab Emirates

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Email: info@aromology.com

Telephone: +971 505197601

SECTION 2 – HAZARD IDENTIFICATION

GHS Classification

- Skin Irritation – Category 2
- Skin Sensitisation – Category 1
- Eye Irritation – Category 2A
- Hazardous to the Aquatic Environment (Chronic) – Category 3

Signal Word

Warning



Hazard Statements

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

- P261 Avoid breathing vapours.
- P264 Wash thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye protection.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P333+P313 If skin irritation or rash occurs: Get medical advice.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
- P337+P313 If eye irritation persists: Get medical advice.
- P501 Dispose of contents/container according to local regulations.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	Information
Product	Calendula CO ₂ Total Extract
Botanical Name	<i>Calendula officinalis</i> L.
INCI Name	Calendula Officinalis Flower Extract
CAS Number	84776-23-8
EC Number	283-949-5
Purity	100% Natural CO ₂ Total Extract

Typical Naturally Occurring Constituents

- Faradiol Esters
- Calendulosides
- α -Cadinol
- Triterpenoids
- Flavonoids
- Carotenoids
- β -Caryophyllene
- Farnesol (trace)
- Plant Sterols
- Fatty Acids



SECTION 4 – FIRST AID MEASURES

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

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing.

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

Ingestion: Rinse mouth. Do not induce vomiting. Obtain medical advice if unwell.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media

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

Hazardous Combustion Products

Carbon monoxide, carbon dioxide and irritating organic vapours.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Wear suitable personal protective equipment.

Prevent release into drains and waterways.

Absorb with inert material such as sand or vermiculite and transfer into suitable disposal containers.

SECTION 7 – HANDLING AND STORAGE

Avoid contact with skin and eyes.



Use in well-ventilated areas.

Keep container tightly closed.

Store away from direct sunlight, excessive heat and oxidising agents.

Recommended Storage Temperature: 5–20 °C

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

- Safety goggles
- Nitrile gloves
- Protective clothing
- Local exhaust ventilation

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Viscous liquid to semi-solid
Colour	Deep Orange to Dark Amber
Odour	Warm herbal, honeyed, green, tea-like, floral
Relative Density (20 °C)	0.930–1.020
Refractive Index (20 °C)	1.470–1.520
Flash Point	>100 °C
Solubility in Water	Insoluble
Solubility	Soluble in ethanol with warming and perfumery solvents

SECTION 10 – STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Avoid:

- Strong oxidising agents
- Excessive heat
- Open flames
- Prolonged exposure to air



Hazardous decomposition products include carbon monoxide and carbon dioxide.

SECTION 11 – TOXICOLOGICAL INFORMATION

May cause skin irritation and allergic skin reactions in sensitive individuals.

May cause eye irritation.

Handle using standard industrial hygiene practices.

SECTION 12 – ECOLOGICAL INFORMATION

Harmful to aquatic organisms with long lasting effects.

Prevent uncontrolled release into the environment.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of contents and containers through an authorised waste 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
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SECTION 16 – OTHER INFORMATION

Calendula CO₂ Total Extract is produced by supercritical carbon dioxide extraction of the flowers of *Calendula officinalis*. It retains a broad spectrum of naturally occurring lipophilic constituents, including triterpenoids, carotenoids and flavonoids, giving it a rich herbal, honeyed and floral profile. It is widely used in premium perfumery, skincare, cosmetic formulations and botanical extracts where exceptional natural quality and complete aromatic character are desired.

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