



SAFETY DATA SHEET (SDS)

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

HEDIONE® HC

SECTION 1: IDENTIFICATION

Parameter	Details
Product Name	HEDIONE® HC
Manufacturer	Firmenich / dsm-firmenich
Product Number	947325
CAS Number	24851-98-7
REACH Number	01-2119493355-31
FEMA Number	3408
Common Name	Methyl Dihydro Jasmonate
Molecular Formula	$C_{13}H_{22}O_3$
Molecular Weight	226 g/mol
Physical State	Liquid
Product Type	Perfumery Aroma Chemical
Olfactive Family	Floral / Jasmine / Transparent / Citrus

The product identity, CAS, REACH, FEMA and molecular weight are published by dsm-firmenich.

Recommended Use: Professional fragrance formulation.

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

Available safety information for methyl dihydrojasmonate / CAS 24851-98-7 reports the following GHS classifications.

GHS CLASSIFICATION



Hazard Class	Classification
Acute Toxicity – Oral	Category 4
Acute Aquatic Hazard	Category 2

SIGNAL WORD

WARNING

HAZARD STATEMENTS

H302 – Harmful if swallowed.

H401 – Toxic to aquatic life.

PRECAUTIONARY STATEMENTS

P264 – Wash skin thoroughly after handling.

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

P273 – Avoid release to the environment.

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

P330 – Rinse mouth.

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

Important: hazard classifications can differ between SDS jurisdictions and revisions. For formal workplace/transport compliance, the current regional dsm-firmenich SDS should take precedence.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Parameter	Details
Product	HEDIONE® HC
Substance	Methyl Dihydrojasmonate – High Cis
CAS Number	24851-98-7
Molecular Formula	C ₁₃ H ₂₂ O ₃
Molecular Weight	226 g/mol
Product Number	947325

HEDIONE® HC differs from classical HEDIONE® through its high cis concentration, which dsm-firmenich states gives it considerably greater olfactive strength.

SECTION 4: FIRST-AID MEASURES

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

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



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

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

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT

148°C / 298.4°F

The current dsm-firmenich Studio page reports a flash point of 148°C.

SUITABLE EXTINGUISHING MEDIA

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

HAZARDOUS COMBUSTION PRODUCTS

May include:

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

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

- Ensure adequate ventilation.
- Avoid eye and skin contact.
- Avoid inhalation of concentrated vapour or mist.
- Wear suitable gloves.
- Wear safety glasses.
- Keep unnecessary personnel away.

ENVIRONMENTAL PRECAUTIONS



Avoid uncontrolled release to:

- Drains
- Sewers
- Surface water
- Groundwater
- Soil

CLEAN-UP

Contain and absorb using:

- Sand
- Vermiculite
- Diatomaceous earth
- Universal chemical absorbent

Transfer to a suitable labelled waste container.

SECTION 7: HANDLING AND STORAGE

HANDLING

- Use with adequate ventilation.
- Avoid ingestion.
- Avoid eye contact.
- Avoid prolonged direct skin contact.
- Do not eat, drink or smoke while handling.
- Wash hands thoroughly after handling.
- Keep container tightly closed.

STORAGE

Store:

- Cool and dry
- In tightly closed containers
- Away from excessive heat
- Protected from direct sunlight
- In a well-ventilated location
- Away from strong oxidising agents

dsm-firmenich notes that HEDIONE® HC performs best under neutral pH conditions around 5.5–7.0.



SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Protection	Recommendation
Eye Protection	Safety glasses / chemical goggles
Hand Protection	Chemical-resistant protective gloves
Body Protection	Suitable protective clothing
Respiratory Protection	Appropriate organic-vapour protection where ventilation is inadequate
Engineering Controls	Adequate general/local ventilation
Hygiene	Wash hands thoroughly after handling

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Physical State	Liquid
Odour	Floral / Jasmine / Citrus / Transparent
CAS Number	24851-98-7
Molecular Formula	$C_{13}H_{22}O_3$
Molecular Weight	226 g/mol
Flash Point	148 °C / 298.4 °F
Vapour Pressure	0.00071 Pa @ 20 °C
Biodegradability	Readily biodegradable
Green Chemistry Score	50–70%
Tenacity	Very high

These values are from the current dsm-firmenich HEDIONE® HC product information.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No hazardous reaction expected under recommended storage conditions.

Chemical Stability: Stable under normal recommended conditions.

Conditions to Avoid:

- Excessive heat
- Strongly acidic conditions
- Strongly alkaline conditions
- Direct sunlight
- Contamination

Incompatible Materials: Strong oxidising agents.



Hazardous Decomposition Products: Carbon monoxide, carbon dioxide and irritating organic fumes may be produced during combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY

Available safety information reports:

Acute Toxicity – Oral, Category 4

H302 – Harmful if swallowed.

Published reference data also report oral LD50 values above 2,000 mg/kg in rats, although values vary by source/test.

ROUTES OF EXPOSURE

Potential exposure routes include:

- Ingestion
 - Skin contact
 - Eye contact
 - Inhalation of concentrated mist/vapour
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SECTION 12: ECOLOGICAL INFORMATION

Available safety information identifies:

Acute Aquatic Toxicity – Category 2

H401 – Toxic to aquatic life.

dsm-firmenich nevertheless classifies HEDIONE® HC as readily biodegradable.

Avoid uncontrolled environmental release.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of product and contaminated packaging through an authorised waste-management facility.

Do not discharge concentrated product into drains, waterways or soil.



Dispose according to applicable local and national regulations.

SECTION 14: TRANSPORT INFORMATION

For definitive dangerous-goods classification, use the current regional dsm-firmenich SDS.

Parameter	Information
UN Number	Refer to current manufacturer SDS
ADR/RID	Refer to current manufacturer SDS
IMDG	Refer to current manufacturer SDS
IATA	Refer to current manufacturer SDS
Packing Group	Refer to current manufacturer SDS
Marine Pollutant	Refer to current manufacturer SDS

I would not assign a UN number from secondary data alone.

SECTION 15: REGULATORY INFORMATION

Relevant frameworks include:

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

PRODUCT REGISTRATION DATA

Product: HEDIONE® HC
Firmenich Product No.: 947325
CAS: 24851-98-7
REACH: 01-2119493355-31
FEMA: 3408

SECTION 16: OTHER INFORMATION

OLFACTIVE PROFILE

Floral • Jasmine • Transparent • Citrus • Fresh



dsm-firmenich describes HEDIONE® HC as a uniquely powerful floral material reminiscent of **magnolia blossoms**, with significantly greater strength than classical HEDIONE® due to its high cis concentration.

RECOMMENDED PERFUMERY CONCENTRATIONS

Firmenich publishes:

Application	Average	Maximum
Fine Fragrance	7%	25%
Shampoo	0.8%	4%
Shower Gel	2%	10%
Candle	2%	5%

These are Firmenich recommended formulation levels, not IFRA restrictions.

DISCLAIMER

This is a supplier-style 16-section SDS compiled from available manufacturer and safety information. It is not an original dsm-firmenich-issued SDS. The current regional manufacturer SDS takes precedence for formal hazard communication and dangerous-goods transportation.

Authorised by:

Fozia Khot
Director