

Safety Data Sheet: Methyl Dihydrojasmonate

1. Identification

Product	Methyl Dihydrojasmonate; CAS 24851-98-7; EC 246-495-9
Use	Professional fragrance and industrial aroma formulation development.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for Methyl Dihydrojasmonate. The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Not classified as a hazardous substance or mixture in the selected reference.
Signal word / symbols	No signal word assigned; No GHS pictogram in the selected reference
Hazard statements	No classified GHS hazard statements assigned to the selected >97% isomer-mixture reference. Prevent unnecessary exposure and environmental release.
Prevention	Use effective ventilation, protective gloves, splash goggles and suitable work clothing. Prevent splashes and unnecessary vapour or mist exposure; keep eyewash available and control ignition sources.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.

3. Composition / Information on Ingredients

Reference ingredient	Methyl dihydrojasmonate, CAS 24851-98-7, EC 246-495-9, >97% in the selected reference. This is a multi-constituent isomer mixture including CAS 2570-03-8 and 93452-03-0; isomer fractions and supplied-batch impurities are not assigned.
Supply grade	Total isomers >97% (GC)
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

General	Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.
Inhalation	Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to mist.
Skin	Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice for persistent irritation.
Eyes	Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses if easy and continue rinsing. Obtain medical advice.
Ingestion	Do not induce vomiting. Rinse mouth if conscious; never give anything orally to an unconscious person. Obtain medical advice.
Effects / treatment	No significant acute or delayed symptom is identified in the selected reference. Avoid skin and eye contact; obtain medical advice if discomfort persists. Treatment is symptomatic and directed by a clinician.

5. Fire-Fighting Measures

Extinguishing media	Use carbon dioxide, dry chemical or foam suited to the incident. Firefighters require self-contained breathing apparatus and protective clothing.
Hazards	Stable under the recommended storage conditions. Fire or thermal decomposition can release carbon monoxide, carbon dioxide and irritating fumes.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personal protection	Use effective ventilation, protective gloves, splash goggles and suitable work clothing. Prevent splashes and unnecessary vapour or mist exposure; keep eyewash available and control ignition sources.
Containment	Remove ignition sources and contain with compatible inert absorbent. Use non-sparking tools and collect in labelled closed waste containers. Avoid splashes and mist.
Environment	Prevent discharge to drains, soil and waterways. Use an approved waste-disposal route.

7. Handling and Storage

Handling	Use effective ventilation, protective gloves, splash goggles and suitable work clothing. Prevent splashes and unnecessary vapour or mist exposure; keep eyewash available and control ignition sources.
Storage	Store in tightly sealed compatible containers in a cool, dry, well-ventilated place. Protect from heat, direct light and strong oxidizing agents.
Incompatibilities	Strong oxidizing agents; excessive heat and ignition sources.

8. Exposure Controls / Personal Protection

Exposure limits	No substance-specific occupational exposure limit is established in the selected reference. Apply effective ventilation and local workplace requirements.
Engineering controls	Use local extraction where mist can be generated. Maintain accessible eyewash and emergency washing facilities.
Personal protection	Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.
Respiratory protection	Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.
Hygiene	Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area.

9. Physical and Chemical Properties

Appearance	Clear, colourless to pale-yellow liquid
Formula / molecular weight	C ₁₃ H ₂₂ O ₃ / 226.31 g/mol
Physical state	Colourless to pale-yellow liquid
Odour	Floral, jasmine-like
Boiling range, reference at 0.20 mmHg	109–112°C
Relative density, reference at 20/20°C	0.9980–1.0060
Refractive index, reference at 20°C	1.4570–1.4610
Water solubility	Insoluble
Flash point, reference closed cup	>93.33°C
Partition coefficient, reference	log Pow 2.50
Other properties	Product-specific values for odor threshold, vapor pressure, partition coefficient, autoignition temperature and viscosity are not supplied by the selected reference set. No values are inferred.

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	Strong oxidizing agents; excessive heat and ignition sources.
Decomposition	Stable under the recommended storage conditions. Fire or thermal decomposition can release carbon monoxide, carbon dioxide and irritating fumes.

11. Toxicological Information

Exposure effects	No significant acute or delayed symptom is identified in the selected reference. Avoid skin and eye contact; obtain medical advice if discomfort persists.
Reference classification	Not classified as a hazardous substance or mixture in the selected reference.
Data limits	Selected reference rat oral LD ₅₀ >2,000 mg/kg and rabbit dermal LD ₅₀ >5,000 mg/kg. Genetic-toxicity result was negative. Quantitative inhalation, irritation, sensitization and repeated-exposure endpoints are not established; this is not a complete finished-formulation assessment.

12. Ecological Information

Environmental effects	No quantitative fish, Daphnia, algae, biodegradation or soil-mobility endpoint is available in the selected reference. Reference log Pow is 2.50. Prevent discharge to drains, soil and waterways.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Non-dangerous goods
UN number	Not assigned
Shipping name	Not regulated as dangerous goods
Class / packing group	ADR / RID, IMDG and ICAO / IATA: non-dangerous goods for the matching >97% isomer-mixture reference; no UN number or packing group assigned.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	Methyl Dihydrojasmonate; CAS 24851-98-7; EC 246-495-9
HS reference	291830; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish authorization for a finished formulation.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	No classified GHS hazard statements assigned to the selected >97% isomer-mixture reference. Prevent unnecessary exposure and environmental release.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.1; prepared 2026-10-07. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

Revision: 2026.1 | Revision date: 2026-10-07