

Material Safety Data Sheet (MSDS)

Mandarin Aldehyde

CAS Number: 5392-40-5

Prepared by: Triveni Chemicals

Revision Date: 25-June-2025

Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name: Mandarin Aldehyde

Synonyms: Citral, 3,7-Dimethyl-2,6-octadienal

Recommended Use: Fragrance ingredient, flavoring agent


Supplier:

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SECTION 2: Hazards Identification

GHS Classification:

- Skin irritation (Category 2), H315
- Eye irritation (Category 2A), H319
- Skin sensitization (Category 1), H317

Signal Word: *Warning*

Hazard Statements:

- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation

Precautionary Statements:

- P261: Avoid breathing vapors
- P264: Wash thoroughly after handling
- P280: Wear protective gloves/eye protection
- P302+P352: IF ON SKIN: Wash with plenty of soap and water
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do — continue rinsing
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention

SECTION 3: Composition/Information on Ingredients

Component	CAS No.	Content
Mandarin Aldehyde	5392-40-5	≥95%

SECTION 4: First-Aid Measures

- **Inhalation:** Move to fresh air. Seek medical advice if symptoms develop.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical advice if unwell.

SECTION 5: Firefighting Measures

Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide

Specific Hazards: Vapors may form explosive mixtures with air

Protective Equipment: Wear SCBA and full protective gear

SECTION 6: Accidental Release Measures

Personal Precautions: Wear gloves, goggles. Provide good ventilation. Avoid ignition sources.

Environmental Precautions: Prevent release to drains or waterways

Cleanup Methods: Absorb on inert material such as sand and place in suitable containers for disposal according to local regulations

SECTION 7: Handling and Storage

Handling: Avoid contact with eyes and skin. Use in well-ventilated areas. Keep away from ignition sources.

Storage: Store in tightly closed containers in a cool, dry, well-ventilated area away from heat, sparks, or flames

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits: Not established

Engineering Controls: Local exhaust recommended

Personal Protective Equipment (PPE):

- Protective gloves
- Safety goggles
- Protective clothing

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	liquid
Odor	Citrus, lemon-like
Boiling Point	~93 °C
Melting Point	Not determined
Flash Point	113 °C (closed cup)
Autoignition Temperature	Not determined
Density	~0.849 g/cm ³
Solubility	Not determined

SECTION 10: Stability and Reactivity

Stability: Stable under recommended storage conditions

Incompatibility: Strong oxidizers, strong acids

Decomposition Products: Carbon monoxide, carbon dioxide

Reactivity: No hazardous polymerization known

SECTION 11: Toxicological Information

- **Oral LD₅₀ (Rat):** >5000 mg/kg (estimated)
- **Skin Effects:** Irritating; may cause allergic reaction
- **Eye Effects:** Causes serious irritation
- **Respiratory Effects:** Vapors may cause mild irritation

SECTION 12: Ecological Information

- **Biodegradability:** Expected to be readily biodegradable
- **Aquatic Toxicity:** Low to moderate hazard
- **Bioaccumulation:** Low potential

SECTION 13: Disposal Considerations

Dispose of product and container according to local, regional, and national regulations. Avoid release to the environment.

SECTION 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Mandarin Aldehyde
- **Hazard Class:** Not applicable
- **Packing Group:** Not applicable

SECTION 15: Regulatory Information

- TSCA listed (US)
- Complies with MSIHC Rules (India)
- Not listed under REACH SVHC

SECTION 16: Other Information

Prepared By: Triveni Chemicals, Regulatory Affairs Department

Disclaimer:

The information above is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under their actual conditions of use. **Triveni Chemicals** disclaims any liability for damage resulting from handling or contact.

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