

## Material Safety Data Sheet (MSDS)

### Naringin

Revision Date: 25-September-2025

Version: 1.0

### Section 1: Product Identification

- **Product Name:** Naringin
- **Chemical Formula:** C<sub>27</sub>H<sub>32</sub>O<sub>14</sub>
- **CAS No:** 10236-47-2
- **Synonyms:** Naringenin-7-O-neohesperidoside; 4',5,7-Trihydroxyflavanone-7-rhamnoglucoside
- **Recommended Use:** Food, beverages, pharmaceuticals, nutraceuticals; bittering/flavoring agent and antioxidant.

### Section 2: Hazards Identification

- **Classification (GHS):** Not classified as hazardous under GHS.
- **Signal Word:** —
- **Hazard Statements:**
  - May cause mild skin and eye irritation.
- **Precautionary Statements:**
  - Avoid contact with skin and eyes
  - Wear gloves and eye protection when handling bulk material
  - Wash thoroughly after handling

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## Section 3: Composition / Information on Ingredients

- **Concentration:**  $\geq 95\%$

## Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. If discomfort occurs, seek medical attention.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. If large amounts are ingested, seek medical advice.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide.
- **Specific Hazards:** Combustion may produce carbon oxides.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

## Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use personal protective equipment.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Sweep up and collect in suitable container. Avoid generating dust. Wash spill area.

## Section 7: Handling and Storage

- **Handling:** Avoid inhalation of dust. Avoid contact with eyes and skin. Use adequate ventilation.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place away from light and moisture.

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Provide adequate ventilation, especially in dust-generating areas.
- **Personal Protective Equipment:** Protective gloves, goggles, dust mask/respirator if ventilation inadequate.

## Section 9: Physical and Chemical Properties

- **Appearance:** Off-white to light yellow crystalline powder
- **Odor:** Slight, characteristic odor
- **Melting Point:** 83 °C (decomposes)
- **Solubility:** Slightly soluble in water; soluble in ethanol, DMSO
- **Molecular Weight:** 580.54 g/mol

## Section 10: Stability and Reactivity

- **Stability:** Stable under normal storage.
- **Incompatible Materials:** Strong oxidizers.
- **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Low acute toxicity. May cause mild irritation to eyes, skin, or respiratory tract.
- **Chronic Effects:** No data indicating carcinogenicity, mutagenicity, or reproductive toxicity.

## Section 12: Ecological Information

- **Ecotoxicity:** Not expected to be hazardous.
- **Persistence/Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low.

## Section 13: Disposal Considerations

- Dispose of product/container in accordance with local/regional/national regulations. Avoid release into environment.

## Section 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Naringin
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

## Section 15: Regulatory Information

- Listed on major chemical inventories where applicable. Complies with Indian chemical safety regulations.
- Not classified as hazardous under GHS.

## Section 16: Other Information

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

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