



Material Safety Data Sheet (MSDS)

Product Name: Imipenem Monohydrate

Catalogue Number: ASA-2012

Date of Issue: 07 April 2025

Prepared By: **Ausamics Pty Ltd**

Version: 1.0

Supplier Details

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1. IDENTIFICATION

Product Name: Imipenem Monohydrate

CAS Number: 74431-23-5

Synonyms: None known

Recommended Use: Laboratory chemical. For research use only.

Uses Advised Against: Not for use in humans, animals, food, or pharmaceuticals.

2. HAZARDS IDENTIFICATION

GHS Classification:

This chemical is not classified as hazardous under Safe Work Australia's WHS Regulations.

Label Elements:

No hazard symbols or signal word required under GHS classification.

Hazards Not Otherwise Classified (HNOC): None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component: Imipenem

CAS Number: 74431-23-5

Concentration: >95%



4. FIRST-AID MEASURES

Eye Contact: Rinse immediately with water for 15 minutes. Seek medical attention.

Skin Contact: Wash off with soap and water. Get medical attention if irritation develops.

Inhalation: Move to fresh air. Seek medical advice if symptoms occur.

Ingestion: Rinse mouth. Drink plenty of water. Seek medical attention.

Most Important Symptoms: None reasonably foreseeable under intended use.

Advice to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO₂, dry chemical, water spray, foam

Special Hazards: May emit carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides.

Protective Equipment: Self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use PPE. Avoid dust formation and inhalation.

Environmental Precautions: Prevent further leakage or spillage if safe. Do not let product enter drains.

Clean-up Methods: Sweep up carefully. Avoid dust. Dispose of according to Section 13.

7. HANDLING AND STORAGE

Handling: Use with adequate ventilation. Avoid contact with skin, eyes, and clothing.

Storage: Store at -20°C in a tightly sealed container. Keep dry and away from incompatible materials.

Incompatible Materials: Strong oxidising agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: None established for this material.

Engineering Controls: Ensure adequate ventilation.

Personal Protective Equipment (PPE):

- Eye/Face: Safety goggles
- Skin: Nitrile gloves, lab coat
- Respiratory: Dust mask or respirator if airborne dust is generated

Hygiene: Wash hands before breaks and after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white powder

Odour: Odourless

Melting Point: 193–198 °C

Solubility: Soluble in water

pH (1% soln): Not available



Molecular Formula: $C_{12}H_{17}N_3O_4S \cdot H_2O$

Molecular Weight: 317.36 g/mol

10. STABILITY AND REACTIVITY

Stability: Stable under recommended conditions.

Reactivity: None expected under normal handling.

Hazardous Reactions: None known.

Incompatibilities: Strong oxidisers.

Decomposition Products: CO, CO₂, NO_x, SO_x.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, ingestion, skin/eye contact

Acute Effects: Harmful if swallowed, respiratory and skin sensitisation

Chronic Effects: Repeated or prolonged exposure not expected under research-use conditions

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not expected to pose a risk in small quantities

Persistence/Degradability: No data available

Mobility/Bioaccumulation: No data available

Environmental Precautions: Avoid release into the environment

13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local/regional/national regulations.

Do not dispose of in drains or water sources.

14. TRANSPORT INFORMATION

Not classified as dangerous goods under ADG, IMDG, or IATA.

UN Number: Not applicable

Proper Shipping Name: Not regulated

Hazard Class: Not applicable

Packing Group: Not applicable

Marine Pollutant: No

15. REGULATORY INFORMATION

AICS (Australia): Listed

GHS Status (Australia): Non-hazardous

SARA/TSCA (USA): Not applicable to Ausamics

REACH (EU): Not listed as SVHC



16. OTHER INFORMATION

Date of Preparation: 25-June-2025

Version: 1.0

Disclaimer:

The information provided in this SDS is believed to be accurate and represents the best information currently available. It is intended for use by qualified professionals. AUSAMICS assumes no liability for any damage resulting from handling or contact with the above product.

- Intended Use: For laboratory and research use only.
- Not for drug, household, or veterinary use.
- Revision Date: 07 April 2025
- Prepared By: Ausamics Pty Ltd