

## SAFETY DATA SHEET (GHS)

Morpholine | CAS 110-91-8

### Section 1: Identification

|                   |                                                                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name      | Morpholine                                                                                                                                               |
| CAS Number        | 110-91-8                                                                                                                                                 |
| Recommended Use   | Pharmaceutical synthesis, Rubber chemical, Corrosion inhibitor                                                                                           |
| Supplier          | PharmaCloud — Green Vision Technical Services, Plot No. 6, Survey No. 599/2, Airport Road, Janori, Tal: Dindori, Dist: Nashik 422206, Maharashtra, India |
| Emergency Contact | +91 75070 06931 (Mon–Sat 9:00–18:00 IST)                                                                                                                 |

### Section 2: Hazard Identification

|                        |                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------|
| GHS Classification     | Flammable, corrosive                                                                         |
| Signal Word            | Danger                                                                                       |
| Precautionary Overview | Handle in accordance with good industrial hygiene and safety practice. See Sections 7 and 8. |

### Section 3: Composition / Information on Ingredients

|                       |                                  |
|-----------------------|----------------------------------|
| Substance             | Morpholine                       |
| CAS                   | 110-91-8                         |
| Formula               | C <sub>4</sub> H <sub>9</sub> NO |
| Concentration / Grade | Technical/99%/LR/AR              |

### Section 4: First-Aid Measures

|              |                                                                                                                                                                    |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Contact  | Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, get medical attention. |
| Skin Contact | Wash with plenty of soap and water. Remove contaminated clothing. If irritation occurs, get medical advice.                                                        |
| Inhalation   | Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, get medical attention.                                                   |
| Ingestion    | Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Get medical attention if you feel unwell.                                                |

### Section 5: Fire-Fighting Measures

Use dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray. Do not use direct water jet. Vapours may travel to ignition source and flash back. Firefighters must wear SCBA.

### Section 6: Accidental Release Measures

Evacuate unnecessary personnel. Wear recommended PPE. Contain spillage, absorb with inert material and collect in suitable closed containers for disposal. Prevent entry to drains and watercourses.

### Section 7: Handling and Storage

Store in a cool, dry, well-ventilated area. Keep away from heat, sparks, open flames and other ignition sources. Ground and bond containers during transfer.

### Section 8: Exposure Controls / Personal Protection

Safety goggles, chemical-resistant gloves and protective clothing. Use adequate ventilation; use respiratory protection if exposure limits may be exceeded.

### Section 9: Physical and Chemical Properties

|                   |                                  |
|-------------------|----------------------------------|
| Molecular Formula | C <sub>7</sub> H <sub>7</sub> NO |
| Molecular Weight  | 87.12                            |
| Appearance        | Refer to TDS                     |
| Density           | 1007 kg/m <sup>3</sup>           |
| Boiling Point     | 128°C                            |
| Melting Point     | -3.1°C                           |
| Flash Point       | 37°C                             |
| Solubility        | Miscible                         |

### Section 10: Stability and Reactivity

Stable under recommended storage conditions. Highly flammable — avoid heat, sparks and ignition sources. Vapours may form explosive mixtures with air.

### Section 11: Toxicological Information

No data available for this grade. Handle as per Sections 7 and 8.

### Section 12: Ecological Information

No data available. Prevent release to the environment.

### Section 13: Disposal Considerations

Dispose of contents and container in accordance with local, state and national regulations through an authorised waste disposal contractor.

### Section 14: Transport Information

|                        |                                       |
|------------------------|---------------------------------------|
| UN Number              | Not regulated / not assigned          |
| Transport Hazard Class | Not regulated based on available data |

### Section 15: Regulatory Information

HSN Code (India): 2933.49. Comply with all applicable national and local regulations.

### Section 16: Other Information

Issued by Green Vision Technical Services (PharmaCloud, [www.pharmacloud.in](http://www.pharmacloud.in)). Revision date: 2026-07-25. The information herein is based on data available to us and applies to the product as supplied. It is provided in good faith without warranty; the user is responsible for verifying suitability for their use.