

**SAFETY DATA SHEET****N-METHYL-2-PYRROLIDONE (NMP)**

CAS No.: 872-50-4

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	N-Methyl-2-Pyrrolidone (NMP)
CAS Number	872-50-4
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Danger
HAZARD CLASSIFICATION • Skin irritation - Category 2 • Serious eye irritation - Category 2A • Reproductive toxicity - Category 1B • Specific target organ toxicity, single exposure - Category 3 (respiratory irritation)	
HAZARD STATEMENTS • H315 - Causes skin irritation • H319 - Causes serious eye irritation • H335 - May cause respiratory irritation • H360D - May damage the unborn child	
PRECAUTIONARY STATEMENTS • P201 - Obtain special instructions before use • P202 - Do not handle until all safety precautions have been read and understood • P260 - Do not breathe vapours/mist • P264 - Wash exposed skin thoroughly after handling • P270 - Do not eat, drink or smoke when using this product • P280 - Wear protective gloves/eye protection/face protection • P302+P352 - IF ON SKIN: wash with plenty of water • P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing • P308+P313 - IF exposed or concerned: get medical advice/attention • P405 - Store locked up	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	N-Methyl-2-Pyrrolidone (NMP)
CAS Number	872-50-4
Physical State	Liquid
Appearance / Odour	Colorless to pale yellow liquid with a mild amine-like odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing and get medical attention if irritation persists.
Skin Contact	Wash off with plenty of water and soap; remove contaminated clothing; seek medical attention if irritation persists.
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing; seek medical attention if respiratory irritation persists.
Ingestion	Rinse mouth; do NOT induce vomiting; give water to drink if conscious; seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, carbon dioxide, alcohol-resistant foam, or water spray/fog.
Unsuitable Extinguishing Media	None specifically identified; high-pressure water jet may spread spilled material.
Special Hazards	Combustible liquid; thermal decomposition may release oxides of nitrogen and carbon and toxic fumes; wear self-contained breathing apparatus for large fires.

6. ACCIDENTAL RELEASE MEASURES

Measures	Ventilate the area, contain the spill with inert absorbent, avoid skin/eye contact, prevent entry into drains/waterways, and collect for disposal in suitable closed containers.
----------	--

7. HANDLING AND STORAGE

Handling Precautions	Avoid skin and eye contact and inhalation of vapor/mist due to reproductive toxicity concerns; use with adequate ventilation, wear appropriate PPE including gloves resistant to NMP permeation, and prevent pregnant workers from exposure per company policy.
Storage Conditions	Store in a cool, dry, well-ventilated area, away from strong oxidizers and acids, in tightly closed containers; store locked up/restricted access due to reproductive toxicity classification.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	ACGIH/EU indicative OEL commonly cited around 10 ppm (40 mg/m3) TWA with a skin notation; use NMP-resistant gloves (e.g., specific laminate or Viton — standard nitrile may not provide adequate protection for prolonged contact), chemical splash goggles, and appropriate respiratory protection where vapor exceeds exposure limits.
-----------------------	--

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless to pale yellow liquid with a mild amine-like odor.
Boiling Point	~202-204 C
Melting Point	~-24 C
Flash Point	~86-95 C (closed cup)
Density / Specific Gravity	~1.03 g/cm3 at 20 C
Water Solubility	Miscible with water in all proportions
pH Value	~8-10 (aqueous solution, mildly alkaline)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of storage and use; hygroscopic.
Incompatible Materials	Strong oxidizing agents, strong acids and bases.
Hazardous Decomposition	Oxides of nitrogen and carbon on combustion or thermal decomposition.

11. TOXICOLOGICAL INFORMATION

Summary	Classified as a reproductive toxicant (Category 1B, may damage the unborn child) based on animal developmental toxicity studies; causes skin and eye irritation; vapor may cause respiratory irritation; readily absorbed through skin; not classified as a carcinogen or mutagen based on available data.
---------	--

12. ECOLOGICAL INFORMATION

Summary	Readily biodegradable; low bioaccumulation potential; moderate acute aquatic toxicity but not classified as an aquatic hazard under standard GHS criteria based on available data.
---------	--

13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as hazardous/chemical waste through a licensed waste management facility in accordance with local regulations; do not discharge to sewers.
-----------------	---

14. TRANSPORT INFORMATION

UN Number	Not regulated for transport under normal conditions (not classified as a dangerous good by most carriers)
Transport Hazard Class	Not regulated (verify with current carrier/regulatory classification)
Packing Group	Not applicable

15. REGULATORY INFORMATION

Notes	Widely used high-performance aprotic solvent; classified as a reproductive toxicant, skin/eye irritant under GHS, OSHA HCS and EU CLP (REACH substance of very high concern for reproductive toxicity); subject to restricted use/exposure limits in several jurisdictions including the EU REACH Annex XVII restriction for industrial and consumer uses.
-------	--

16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

(This document is computer generated and therefore does not require any signature.)

"DEALERS IN ACIDS, SOLVENTS, MINERALS, BASES AND SPECIALISED CHEMICAL COMPOUNDS"

+91 - 9840284032, 9176135357
+91 - 44 - 25393652, 42130281
sales@surajchemicals.com
surajchemicals@yahoo.com

No 92, Govindappa Naicken Street
Shiva Complex, Chennai - 600001
www.surajchemicals.com
GST NO : 33ACEPV8190L1ZZ

AUTHORISED DEALER AND IMPORTER FOR
GRASIM INDUSTRIES (ADITYA BIRLA), BASF (GERMANY), GODREJ INDUSTRIES, SNF (FRANCE)