



## Section 1 - Chemical Product and Company Identification

**Product Name** N-Methyl-2-Pyrrolidone (NMP) extrapure AR, 99.5%  
**Product Code** 86263  
**CAS No** 872-50-4  
**Use for** Laboratory Chemicals.  
**Company Name** Sisco Research Laboratories Pvt. Ltd.  
**Address** 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Andheri (E), Mumbai - 400 099, India

## Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
872-50-4	N-Methyl-2-pyrrolidinone	<=100%	212-828-1

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin. May cause harm to the unborn child.

#### Potential Health Effects

**Eye:** Causes eye irritation.

**Skin:** Causes skin irritation. Contact with the skin defats the skin.

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

**Inhalation:** Causes respiratory tract irritation. May cause abdominal pain, nausea, vomiting, and inflammation of the gums and mouth.

**Chronic:** Prolonged or repeated skin contact may cause dermatitis.

## Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

**Ingestion:** Get medical aid. Wash mouth out with water.

**Inhalation:** Remove from exposure and move to fresh air immediately.

#### Notes to Physician:

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Combustible liquid.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Do not let this chemical enter the environment.



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## Section 7 - Handling and Storage

**Handling:** Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

**Storage:** Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Keep under a nitrogen blanket.

## Section 8 - Exposure Control / Personal Protection

### Personal Protective Equipment

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand Protection:** The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

**Eye Protection:** Safety glasses

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## Section 9 - Physical and Chemical Properties

**Physical State :** Liquid  
**Melting Point:** -24 °C (-11 °F)  
**Molecular Formula:** C<sub>5</sub>H<sub>9</sub>NO  
**Molecular Weight:** 99.13

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions. Light sensitive. Hygroscopic: absorbs moisture or water from the air.

**Conditions to Avoid:** Incompatible materials, light, temperatures above 100°C, exposure to moist air or water.

### Incompatibilities with

**Other Materials :** Strong oxidizing agents, strong acids, strong bases.

### Hazardous Decomposition

**Products :** Nitrogen oxides, carbon monoxide, carbon dioxide.

**Hazardous Polymerization :** Will not occur.

## Section 11 - Toxicological Information



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**Product Code** 86263

**RTECS#:** CAS# 872-50-4: UY5790000

**LD50/LC50:** RTECS:

**CAS# 872-50-4:** Draize test, rabbit, eye: 100 mg Moderate;

Oral, mouse: LD50 = 5130 mg/kg;

Oral, rat: LD50 = 3914 mg/kg;

Skin, rabbit: LD50 = 8 gm/kg;

**Carcinogenicity:** 1-Methyl-2-pyrrolidinone - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** See actual entry in RTECS for complete information. Mutagenicity: Ames-test: negative. Teratogen.

## Section 12 - Ecological Information

**Ecotoxicity:** Fish: *Leuciscus idus*: LC50 = 4000 mg/l; 96 h; .

Daphnia: Daphnia: EC50 = 4897 mg/l; 48 h; .

Algae: Daphnia: IC50 = >500 mg/l; 72 h; .

Bacteria: Daphnia: EC50 = >9000 mg/l; 48 h

**Other:** Readily biodegradable.

log Pow = -0.46 (25°C) BOD5 = 1.1 COD = 1.6 biodegradability: >70%

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

	IATA	IMO	RID/ADR
<b>Shipping Name:</b>	Not regulated	Not regulated	Not regulated

**Hazard Class:**

**UN Number:**

**Packing Group:**

## Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.