



Applicant: Dongguan Zesheng New Materials Technology Co. , Ltd.

Address: Room1204, Unit 1, Building 1, No. 9, industry West Road, Songshan Lake , Dongguan City, Guangdong province,China

Product information:

Product name: N-Methyl pyrrolidone

Product model: None

Product ingredients/materials (provided by applicant): See section 3 " Composition/Information on Ingredient" of below attached Material Safety Data Sheet (MSDS)

Date: 2/2/2025 to 4/2/2025

Required services : Prepare below MSDS report according to the sample data provided by the applicant

Abstract : According to applicant's requirements, the content and format of this MSDS is prepared according to the tenth revised edition of "Globally Harmonized System of Classification and Labeling of Chemicals (GHS)". For details, please refer to below attached report

Signed by: 

Shanghai Fajin Testing Technology Co.,Ltd

Room 1015, V6 Times Business Building, No.16, Xinyuan Road, Anting Town, Jiading District, Shanghai
Tel:+86-021-69580886, Fax:+86-021-69580886, E-mail: cx@m-sds.com, website: www.m-sds.com

Material Safety Data Sheet

(MSDS)

In accordance with GHS Rev. 10

Section 1 - Chemical Product and Company Identification

1.1 Product Identification:

Product Name: N-Methyl pyrrolidone
Product Model: None
Product description: Colorless transparent Liquid, Weak odor

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: No data available
Use advised against: No data available

1.3 Details of the Manufacture or supplier

Manufacturer: Dongguan Zesheng New Materials Technology Co. , Ltd.
Address: Room1204, Unit 1, Building 1, No. 9, industry West Road, Songshan Lake , Dongguan City, Guangdong province, China
Telephone: +86-13751412818
Fax: /
Email: zesheng@fengzedz.com

1.4 Emergency telephone number

Emergency Telephone: +86-13751412818

Section 2 - Hazards Identification

2.1 Classification of the substance or mixture

GHS Classification: Skin corrosion/irritation category 2;
Serious eye injury/eye irritation category 2A;
Specific target organ toxicity primary exposure category 3
(respiratory tract irritation);
Reproductive toxicity category 1.

2.2 GHS Label elements, including precautionary statements

Pictogram(s):



Signal Word:

Danger

Hazard Statement:

H315 Causes skin irritation
 H319 Causes serious eye irritation
 H335 May cause respiratory irritation
 H360 May cause damage to fertility or fetus

Precautionary statements:

P201 Get special instructions before use.
 P202 Do not move until you understand all safety precautions.
 P260 Do not breathe dust/smoke/gas/smoke/vapor/spray.
 P264 Wash face and hands thoroughly after operation.
 P271 Can only be used outdoors or in a well-ventilated place.
 P280 Wear protective gloves/protective clothing/protective goggles/protective mask.
 P312 If you feel unwell, call the detoxification center or doctor.
 P321 Specific treatment (see this label).
 P302+P352 In case of skin contamination: wash with plenty of soap and water.
 P304+P340 If inhaled by mistake: transfer the victim to a place with fresh air and maintain a comfortable rest position.
 P308+P313 In case of contact or doubt: seek medical treatment.
 P332+P313 In case of skin irritation: seek medical advice.
 P337+P313 If you still feel eye irritation: seek medical advice.
 P362+P364 Take off all contaminated clothes and wash them before reuse.
 P305+P351+P338 In case of eye contact: rinse carefully with water for several minutes. If you wear contact lenses and can take them out easily, take them out. Continue flushing.
 P405 storage place must be locked.
 P403+P233 should be stored in a well-ventilated place. Keep the container closed.
 P501 Dispose of contents/containers according to local/regional/national/international regulations.

2.3 Description of any hazards not otherwise classified

No information available.

Section 3 - Composition/Information on Ingredient

Substance () Preparation () Article (✓)

Composition:

Chemical name	CAS No.	Content (%)
NMP	872-50-4	99.9%
WATER	7732-18-5	0.1%

Note: CAS No. is Chemical Abstract Service Registry Number.

Section 4 - First Aid Measures

4.1 Description of first aid measures:

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: Remove/Take off contaminated clothing. Gently wash with soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Ingestion: If swallowed: Rinse mouth with water. Get emergency medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Section 5 -Extinguishing media

5.1 Extinguishing media

Suitable extinguishing media: Use water, foam, carbon dioxide, sand to extinguish fire.

Unsuitable extinguishing media: None.

5.2 Special hazards arising from the substance or mixture

Non flammable and explosive dangerous goods.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and full protective gear. Put out the fire in the upwind direction to avoid generating dust. Do not breathe gas or fumes, cool containers with water mist, and remove unopened containers from fire in time.

5.4 Further information

Use water fog to cool down unopened container involved in fire. Prevent fire extinguishing water from contaminating surface water or the ground water source.

Section 6 - Accidental Release Measures

For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up:

Collect solid residues. Gather the spilled product and keep in suitable, closed containers for recycle or disposal (see section 13).

Section 7 - Handling and Storage

7.1 Precautions for safe handling:

When handling, do not eat, drink or smoke. Protect the container from physical damage. Keep away from fire and heat sources.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, ventilated warehouse. Keep container tightly closed and away from fire and heat. Storage areas should be equipped with emergency release equipment and suitable containment materials.

Avoid contact with strong acids, alkalis, strong oxidizing substances.

Section 8 - Exposure Controls, Personal Protection

8.1 Exposure Limits: No data available.

8.2 Exposure controls

Engineering Control: Provide local exhaust equipment.

Personal protective equipment:

Respiratory Protection: For normal contact, no special protective measures are required. Choose an appropriate filter respirator according to the working environment.

Eyes Protection: For normal contact, no special protective measures are required. Wear protective glasses when overexposure is at risk.

Body Protection: For normal contact, no special protective measures are required. Wear work clothes.

Hands Protection: For normal contact, no special protective measures are required. Wear safety gloves.

Other Protections: Wash hands with soap and clean water after handling. Keep the workplace clean. Pay attention to personal hygiene.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Liquid
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Color	Colorless transparent
Odor	Weak odor
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability	Not available.
Upper explosive limit %(V/V)	Not available.
Lower explosive limit %(V/V)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density(water=1)	Not available.
Solubility(ies)	Not available.
Partition coefficient: n-octanol/water	Not available.
Ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

Section 10 - Stability and Reactivity

10.1 Stability: Stable under normal storage temperature and pressure.

10.2 Conditions to Avoid: High temperature, heat source, ignition source.

10.3 Incompatible materials: Strong acid, strong base, strong oxidizing agents.

10.4 Hazardous Decomposition Products: No data available.

10.5 Possibility of hazardous reactions: None hazardous reactions known under normal condition.

Section 11 - Toxicological Information

Acute Toxicity:	Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation:	Skin corrosion/irritation category 2.
Serious Eye Damage/Eye Irritation:	Serious eye injury/eye irritation category 2A.
Respiratory or Skin Sensitization	Based on available data, the classification criteria are not met.
Germ Cell Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity:	None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA.

Reproductive Toxicity:	Reproductive toxicity category 1.
Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):	Specific target organ toxicity primary exposure category 3 (respiratory tract irritation).
Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System):	Based on available data, the classification criteria are not met.
Aspiration Hazard:	Based on available data, the classification criteria are not met.
Potential Health Effects:	None.
Inhalation:	Normally there are no obvious symptoms or effects.
Skin Contact:	Skin corrosion/irritation category 2.
Eye Contact:	Serious eye injury/eye irritation category 2A.
Ingestion:	Normally there are no obvious symptoms or effects.

Section 12 - Ecological Information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

Section 13 - Disposal Considerations

Waste treatment methods

This material and its container must be disposed of as hazardous waste. Offer surplus and non-recyclable products to a licensed disposal company. Observe according to the national and local related regulations.

Contaminated packaging

Return to supplier for recycling if possible. Disposal area must comply with the environment and national safety standard.

Section 14 - Transport Information

14.1 UN-Number

ADR/RID/ADN, IMDG, IATA Not applicable

14.2 UN proper shipping name

ADR/RID/ADN, IMDG, IATA Not applicable

14.3 Transport hazard class(es)

ADR/RID/ADN, IMDG, IATA

Class Not applicable

Label Not applicable

14.4 Packing group

ADR/RID/ADN, IMDG, IATA Not applicable

14.5 Environmental hazards Not applicable

14.6 Special precautions for user Not applicable

14.7 Transport in bulk according to Annex 1 of Marpol and the IBC Code Not available

14.8 Shipping/Additional Material The product is not classified as dangerous goods

UN "Standard Provisions" Not available

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

Section 16 - Additional Information

16.1 Reference

- [1] IPCS: The International Chemical Safety Cards website: <http://www.ilo.org/dyn/icsc/showcard.home>
(ICSC)
- [2] EU REACH Registered Substance Database website:
<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
- [3] OECD: The Global Portal to Information on website:

	Chemical Substances,	http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
[4]	CAMEO Chemicals,	website: http://cameochemicals.noaa.gov/search/simple
[5]	NLM:ChemIDplus,	website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
[6]	EPA: Integrated Risk Information System,	website: http://cfpub.epa.gov/iris/
[7]	U.S. Department of Transportation:ERG,	website: http://www.phmsa.dot.gov/hazmat/library/erg
[8]	Germany GESTIS-database on hazard substance	website: http://gestis-en.itrust.de/
[9]	IARC	website: http://www.iarc.fr/

16.2 Abbreviations and acronyms

PC-STEL	Short term exposure limit
PC-TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
EC50	Effective Concentration 50%
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative
ADR	Agreement on Dangerous Goods by Road
IATA	International Air Transport Association
IMO	International Maritime Organization
IMDG	The International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
UN	The United Nations
NTP	National Toxicology Program
ACGIH	The American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health

16.3 Disclaimer

-This safety data sheet was prepared in accordance with UN GHS Rev.10.

-The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product

16.4 Information on revision

MSDS Creation Date: February 04, 2025

MSDS Revision Date: -

Reason For Revision: -

MSDS Edition:	1.0
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End of MSDS