

SAFETY DATA SHEET

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1. IDENTIFICATION

Product name: N-Methyl-2-pyrrolidone (1-Methyl-2-pyrrolidone)

CAS: 872-50-4

Company: MIT-IVY INDUSTRY CO.,LTD

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS HEALTH HAZARDS

Acute toxicity (Oral)Category 5Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2AReproductive toxicityCategory 1B

Specific target organ toxicity Respiratory tract irritation, Narcotic effects

- Single exposure [Category 3] Specific target organ toxicity

- Repeated exposure [Category 2]

- Repeated exposure [Category

ENVIRONMENTAL HAZARDSLabel elements

Pictograms or hazard symbols



Signal word Hazard statements Danger

Not classified

Not classified

May be harmful if swallowed

Causes skin irritation

Causes serious eye irritation

May damage fertility or the unborn child

Liver Bone marrow Nervous system Lung

May cause damage to organs through prolonged or repeated exposure: Liver Bone marrow Nervous system

Lung

May cause respiratory irritation May cause drowsiness or dizziness

Precautionary statements

[Prevention] Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist, vapors or spray.

Use only outdoors or in a well-ventilated area. Wash hands and face thoroughly after handling.

Wear protective gloves, protective clothing, face protection.

[Response] IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice

or attention. Take off contaminated clothing and wash it before reuse.

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IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor

if you feel unwell.

[Storage]

IF IN EYES: 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 or attention.

IF exposed or concerned: Get medical advice or attention. Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

[Disposal] Dispose of contents and container in accordance with local, regional, national

regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: 1-Methyl-2-pyrrolidone

Percent: >99.0%(GC) **CAS RN:** 872-50-4

Synonyms: 1-Methyl-2-pyrrolidinone, NMP

Chemical Formula: C₅H₉NO

4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty

of soap and water. Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Get medical advice/attention.

Ingestion: Get medical advice/attention.Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and

air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing

media:

Dry chemical, foam, water in large amounts, carbon dioxide.

Specific hazards arising from Take care as it may decompose upon combustion or in high temperatures to **the chemical:** generate poisonous fume.

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable

fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the

surroundings: Remove movable containers if safe to do so.

Special protective equipment When extinguishing fire, be sure to wear personal protective equipment for firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be

controlled around the leakage area by roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for containment and cleaning

up:

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered

saw dust, in case of large amount of spinage, contain a spin by buriaing. Ad

or collected material should be promptly disposed of, in accordance with

appropriate laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective

equipment. Prevent generation of vapour or mist. Wash hands and face

thoroughly after handling.

Use a closed system if possible. Use a ventilation, local exhaust if vapour or

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aerosol will be generated.

Avoid all contact! Advice on safe handling:

Conditions for safe storage, including any

incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool, dark and well-ventilated place.

> Store under inert das. Protect from moisture. Store locked up.

Store away from incompatible materials such as oxidizing agents.

Light-sensitive, Hygroscopic

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Install a closed system or local exhaust. Also install safety shower and eye bath. **Engineering controls:**

Exposure limits:

Personal protective equipment

Half or full facepiece respirator, self-contained breathing apparatus(SCBA), Respiratory protection:

supplied air respirator, etc. Use respirators approved under appropriate

government standards and follow local and national regulations.

Hand protection: Impervious gloves.

Safety goggles. A face-shield, if the situation requires. Eye protection:

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid Form: Clear

Colour: Colorless - Slightly pale yellow

Mild Amine-like Odour:

7.7 - 8Melting point/freezing point: -24°C Boiling point/range: 202°C Flash point: 95°C

Flammability or explosive

limits:

1% Lower: 3.9% Upper: 66Pa/25°C Vapour pressure:

Vapour density: 3.4 Relative density: 1.03

Solubility(ies):

[Water] Miscible

[Other solvents]

Miscible: Ether, Alcohols, Benzene, Acetone, Chloroform, Ethyl acetate

Log Pow: -0.40Autoignition temperature: 270°C

Dynamic Viscosity: 1.32mPa·s (40°C)

10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous No special reactivity has been reported.

reactions:

Oxidizing agents, Strong acids, Strong bases, Reducing agents Incompatible materials: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

Hazardous decomposition

products:



11. TOXICOLOGICAL INFORMATION

Acute Toxicity: orl-rat LD50:3914 mg/kg

skn-rbt LD50:8 g/kg ihl-rat LCLo:1 g/m³ ipr-rat LD50:2472 mg/kg

Skin corrosion/irritation:

No data available

Serious eye

damage/irritation:

No data available

eye-rbt 100 mg MOD

Germ cell mutagenicity: sln-smc 154 mmol/L

Carcinogenicity: orl-mus TDLo:784 g/kg/78W-C

IARC = No data available
NTP = No data available

Reproductive toxicity: ihl-rat TDLo:116 ppm/6H (multigenerations)

orl-rat TDLo:9700 mg/kg (6-15D preg)

RTECS Number: UY5790000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: 96h LC50:832 mg/L (Lepomis macrochirus)

Crustacea: No data available Algae: No data available

Persistence / degradability: 73 % (NO2), 94 % (NH3)(by BOD), 100 % (by GC), 96 % (by TOC)

Bioaccumulative 3

potential(BCF):

Mobility in soil

Log Pow: -0.40 Soil adsorption (Koc): 4.6 Henry's Law (PaM³/mol): 3.2 x 10⁻⁴

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class: Does not correspond to the classification standard of the United Nations

UN-No: Not listed

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

16. OTHER INFORMATION

The reference company name of written contents

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