

1. IDENTIFICATION

Product name: N-Methylformamide
CAS: 123-39-7
Company: MIT-IVY INDUSTRY CO.,LTD
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 SHIMAO PLAZE YUNLONG DISTRICT XUZHOUJIANGSU, CHINA 221100
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS	Not classified
HEALTH HAZARDS	
Acute toxicity (Oral)	Category 5
Acute toxicity (Dermal)	Category 4
Serious eye damage/eye irritation	Category 2B
Reproductive toxicity	Category 1B
Specific target organ toxicity	Liver
- Single exposure [Category 1]	
Specific target organ toxicity	Liver Respiratory system
- Repeated exposure [Category 1]	
ENVIRONMENTAL HAZARDS	Not classified

Label elements

Pictograms or hazard symbols



Signal word
Hazard statements

Danger
 May be harmful if swallowed
 Harmful in contact with skin
 Causes eye irritation
 May damage fertility or the unborn child
 Causes damage to organs : Liver
 Causes damage to organs through prolonged or repeated exposure : Liver Respiratory system

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.
 Do not eat, drink or smoke when using this product.
 Wash hands and face thoroughly after handling.
 Wear protective gloves, protective clothing, face protection.
[Response] IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse.
 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.

[Storage]
[Disposal]

If exposed or concerned: Call a POISON CENTER or doctor.
Store locked up.
Dispose of contents and container in accordance with local, regional, national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance
Components: N-Methylformamide
Percent: >99.0%(GC)
CAS RN: 123-39-7
Synonyms: N-Formylmethylamine
Chemical Formula: C₂H₅NO

4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician.
Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Call a POISON CENTER or doctor/physician.
Ingestion: Call a POISON CENTER or doctor/physician. 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 the chemical: Take care as it may decompose upon combustion or in high temperatures to 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 for firefighters: When extinguishing fire, be sure to wear personal protective equipment

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 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 aerosol will be generated.

Advice on safe handling: Avoid all contact!

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool and dark place.
Store locked up.
Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Exposure limits:

ACGIH TLV(TWA): 1 ppm (skin)

Personal protective equipment

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

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

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 - Very pale yellow
Odour: No data available
pH: No data available
Melting point/freezing point: -5°C
Boiling point/range: 183°C
Flash point: 98°C
Flammability or explosive limits:
Lower: 3.8%
Upper: 17.8%
Vapour pressure: 33.7Pa/25°C
Vapour density: 2.04
Relative density: 1.01
Solubility(ies):
[Water] Miscible
[Other solvents]
Very soluble: Acetone, Ethanol
Insoluble: Ether
Log Pow: -0.06
Autoignition temperature: 425°C
Kinematic viscosity: 1.38mm²/s (40°C)

10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.
Possibility of hazardous reactions: No special reactivity has been reported.

Incompatible materials: Oxidizing agents, Acid chlorides
Hazardous decomposition products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	ori-rat LD50:2700 mg/kg skn-rbt LDLo:1500 mg/kg ipr-rat LD50:3500 mg/kg scu-mus LD50:3100 mg/kg
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Germ cell mutagenicity:	mrc-smc 500 mmol/L/3H
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	ori-rat TDLo:750 mg/kg (6-15D preg) skn-rbt TDLo:1800 mg/kg (8-16D preg) scu-rat TDLo:500 mg/kg (10D preg) ipr-rat TDLo:700 mg/kg (7-13D preg)
RTECS Number:	LQ3000000

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	96h LC50:>100 mg/L (Oryzias latipes)
Crustacea:	48h EC50:>1000 mg/L (Daphnia magna)
Algae:	72h EC50:>1000 mg/L (Selenastrum capricornutum)
Persistence / degradability:	No data available
Bioaccumulative potential(BCF):	3
Mobility in soil	
Log Pow:	-0.06
Soil adsorption (Koc):	7
Henry's Law (PaM³/mol):	2.0 x 10 ⁻³

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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This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority.

The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

