Printing date 07/29/2020

Reviewed on 07/29/2020

1 Identification

- · Product identifier
- · Trade name: <u>1-Methyl-2-Pyrrolidone (n-Methyl Pyrrolidone) Reagent ACS</u>
- Article number: FIS074
- · CAS Number:
- 872-50-4 • **EC number:**
- 212-828-1
- Index number: 606-021-00-7
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Aqua Solutions, Inc.
 6913 Highway 225 DEER PARK, TX 77536 USA
 800-256-2586

 Information department: Technical Coordinator Sherman Nelson sherman@aquasolutions.org Technical Coordinator Sherman Nelson sherman@aquasolutions.org
 Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

2 *Hazard*(*s*) *identification*

· Classification of the substance or mixture



GHS08 Health hazard

Repr. 1B H360 May damage fertility or the unborn child.

GHS07

Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2AH319Causes serious eye irritation.STOT SE 3H335May cause respiratory irritation.

Flam. Liq. 4 H227 Combustible liquid.

· Label elements

• *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

Printing date 07/29/2020

Reviewed on 07/29/2020

Trade name: 1-Methyl-2-Pyrrolidone (n-Methyl Pyrrolidone) Reagent ACS

(Contd. of page 1) · Hazard statements Combustible liquid. Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child. May cause respiratory irritation. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. *Keep away from flames and hot surfaces. – No smoking.* Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4)

 $\begin{array}{c} 2\\ 2\\ 2\\ 1\\ \end{array} \begin{array}{c} Health = 2\\ Fire = 2\\ Reactivity = 1 \end{array}$

· HMIS-ratings (scale 0 - 4)



· Other hazards

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 872-50-4 1-Methyl-2-Pyrrolidinone
- · Identification number(s)
- EC number: 212-828-1

(Contd. on page 3)

US

Printing date 07/29/2020

Reviewed on 07/29/2020

Trade name: 1-Methyl-2-Pyrrolidone (n-Methyl Pyrrolidone) Reagent ACS

(Contd. of page 2)

· Index number: 606-021-00-7

4 First-aid measures

- · Description of first aid measures
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 *Fire-fighting measures*

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

- Ensure adequate ventilation.
- · Reference to other sections
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals
- · PAC-1: 30 ppm
- · PAC-2: 32 ppm
- · PAC-3: 190 ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.

(Contd. on page 4)

US -

Printing date 07/29/2020

Reviewed on 07/29/2020

Trade name: 1-Methyl-2-Pyrrolidone (n-Methyl Pyrrolidone) Reagent ACS

(Contd. of page 3)

- · Conditions for safe storage, including any incompatibilities
- · Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Not required.

• Further information about storage conditions: Keep receptacle tightly sealed.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

CAS: 872-50-4 1-Methyl-2-Pyrrolidinone

TLV BEI

WEEL Long-term value: 10 ppm Skin

· Ingredients with biological limit values:

CAS: 872-50-4 1-Methyl-2-Pyrrolidinone

BEI 100 mg/L

LD50 Intraperitoneal: urine Time: end of shift LD50: 5-Hydroxy-N-methyl-2-pyrrolidone

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the

chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

⁻ US

Printing date 07/29/2020

Reviewed on 07/29/2020

Trade name: 1-Methyl-2-Pyrrolidone (n-Methyl Pyrrolidone) Reagent ACS

• Eye protection:

(Contd. of page 4)



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and c	hemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Light yellow	
Odor:	Amine-like	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-24 °C (-11.2 °F)	
Boiling point/Boiling range:	202 °C (395.6 °F)	
Flash point:	93 °C (199.4 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	270 °C (518 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	1.3 Vol %	
Upper:	9.5 Vol %	
Vapor pressure at 20 °C (68 °F):	0.3 hPa (0.2 mm Hg)	
<i>Density at 20 °C (68 °F):</i>	1.026 g/cm ³ (8.56197 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity:		
Dynamic at 20 $^{\circ}C$ (68 $^{\circ}F$):	1.65 mPas	
Kinematic:	Not determined.	
Other information	No further relevant information available.	

(Contd. on page 6)

Printing date 07/29/2020

Reviewed on 07/29/2020

Trade name: 1-Methyl-2-Pyrrolidone (n-Methyl Pyrrolidone) Reagent ACS

(Contd. of page 5)

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- *PBT:* Not applicable. • *vPvB:* Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

(Contd. on page 7)

Printing date 07/29/2020

Reviewed on 07/29/2020

(Contd. of page 6)

Trade name: 1-Methyl-2-Pyrrolidone (n-Methyl Pyrrolidone) Reagent ACS

· Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not regulated
UN proper shipping name DOT, ADN, IMDG, IATA	Not regulated
Transport hazard class(es)	
DOT, ADN, IMDG, IATA Class	Not regulated
Packing group DOT, IMDG, IATA	Not regulated
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
UN "Model Regulation":	Not regulated

15 Regulatory information

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

- · Sara
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is listed.
- TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). *Hazard pictograms*



· Signal word Danger

(Contd. on page 8)

US

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Trade name: 1-Methyl-2-Pyrrolidone (n-Methyl Pyrrolidone) Reagent ACS

Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from flames and hot surfaces. – No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing.	(Contd. of page 7)	
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Store in a well-ventilated place. Keep cool. Store locked up.		
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X		
\mathbf{D} is pose of contents contents in accordance with focus regional national incritional regulations.	1	
	Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact:
- Date of preparation / last revision Revision 1.1, 04-01-2020: Revised Hazard information per Fann. STN Creation date for SDS 11-05-2014. STN 07/29/2020 / Abbreviations and acronyms:
- IMDG: International Maritime Code for Dangerous GoodsDOT: US Department of TransportationIATA: International Air Transport AssociationACGIH: American Conference of Governmental Industrial HygienistsEINECS: European Inventory of Existing Commercial Chemical SubstancesCAS: Chemical Abstracts Service (division of the American Chemical Society)NFPA: National Fire Protection Association (USA)HMIS: Hazardous Materials Identification System (USA)PBT: Persistent, Bioaccumulative and ToxicvPvB: very Persistent and very BioaccumulativeNIOSH: National Institute for Occupational SafetyOSHA: Occupational Safety & HealthTLV: Threshold Limit ValuePEL: Permissible Exposure Limit

(Contd. on page 9)

US

Printing date 07/29/2020

Reviewed on 07/29/2020

Trade name: 1-Methyl-2-Pyrrolidone (n-Methyl Pyrrolidone) Reagent ACS

(Contd. of page 8)

REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 4: Flammable liquids – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Repr. 1B: Reproductive toxicity – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3