

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

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MATERIAL NAME: **NMP (N-methyl-2-pyrrolidone)**

REVISED: March 1, 2022

CHEMICAL FAMILY: Pyrrolidone Solution

SYNONYMS: Alkali

Product Number: 150-NMP

SECTION 2. HEALTH HAZARD INFORMATION

GHS Classifications

H227 Combustible liquid

H319 Causes serious eye irritation

H315 Causes skin irritation

H335 May cause respiratory irritation

H360 May damage the unborn child

Pictograms or Hazard symbols



Signal word: Danger

Precautionary Statements

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, flames, and hot surfaces. No smoking.

P233 Keep container tightly closed.

P260 Do not breathe fume/gas/mist/vapors.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves, clothing, and eye and face protection.

P301 + P312 If swallowed, call a physician if you feel unwell.

P303 + P352 If on skin, wash with plenty of soap and water.

P304 + P340 If inhaled, remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes.

P332 + P313 If skin irritation occurs, get medical advice/attention.

P337 + P311 If eye irritation persists, get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire use water spray, dry powder, foam, or carbon dioxide to extinguish.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS

Material		Wt %
n-methylpyrrolidone	CAS# 872-50-4	100
Total		100

SECTION 4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE

FIRST AID:

Eye Contact: Corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause permanent eye damage. Seek medical attention.

Skin Contact: Corrosive and irritating to exposed skin. Flush skin well with water for 15 minutes, wash with soap and water. Remove affected clothing.

Inhalation: If mist is inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention. Inhalation of mist may cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract. In severe cases, may pulmonary edema, circulatory failure, and death.

Ingestion: Will cause burns to the mouth and damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Get medical attention immediately. Induce vomiting with soap solution.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air	<u>LOWER</u>	<u>UPPER</u>
92.78 °C	346.11 °C		1.3	9.5

Extinguishing media: Suitable for surrounding fire.

Special fire fighting procedures: Wear chemically retardant gear and NIOSH approved self-contained breathing apparatus. Thermal decomposition produces irritating and toxic fumes. Do not allow to come in contact with acids. Toxic gases released: Contact with acids may release heat.

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILLS, LEAKS: Ventilate area of leak or spill. Stop leak if possible to do so without risk. Clean-up personnel should wear protective clothing and NIOSH approved respirator. Dike and cover the contaminated areas with absorbent, non-combustible material such as earth, sand, or vermiculite. Decontaminate area with sodium or calcium hypochlorite. Do not use combustibles. Do not flush to sewer or waterways.

SECTION 7. HANDLING AND STORAGE

Wash thoroughly after handling. Remove contaminated clothing and wash before re-use. Do not breathe mist or

Acute oral toxicity (LD50): 3914 mg/kg [Rat]. Acute dermal toxicity (LD50): 8000 mg/kg [Rabbit].

Chronic Effects on Humans:

MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: blood, kidneys,

lymphatic system, Urinary system, bone marrow.

Other Toxic Effects on Humans:

Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May cause adverse reproductive effects (maternal effects - post implantation mortality, fetotoxicity) and birth defects based on

animal. May affect genetic material. May cause cancer (tumorigenic) based on animal data.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: Causes skin irritation. May be absorbed through skin. Eyes: Causes moderate eye

irritation. Inhalation: Causes respiratory tract irritation. May affect respiration (dyspnea), gastrointestinal tract (abdominal pain,

nausea, vomiting and inflammation of gums and mouth, behavior/Central Nervous system (somnolence, muscle weakness,

dizziness, drowsiness, headache), and urinary system. Ingestion: May cause gastrointestinal tract irritation with nausea,

vomiting and diarrhea. May affect behavior/Central Nervous System (similar symptoms to inhalation) metabolism, blood and

urinary tract.

SECTION 12. ECOLOGICAL INFORMATION

Bioaccumulation : When released into the soil, this material is not expected to biodegrade. When released into the soil, this material may leach into groundwater.

Environmental Toxicity: This material is suspected of being harmful to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL: Dispose of in accordance with all federal state and local regulations. Send waste to an approved waste disposal facility.

SECTION 14. TRANSPORTATION INFORMATION

Non-restricted, non-regulated

SECTION 15. REGULATORY

Symbol: C, Corrosive

R-Phrase: 21/22, harmful in contact with skin and if swallowed

S-Phrases: 23-36/37/39-45 Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Federal and State Regulations:

Pennsylvania RTK: N-Methyl-2-pyrrolidinone Minnesota: N-Methyl-2-pyrrolidinone Massachusetts RTK: N-Methyl-2-

pyrrolidinone New Jersey: N-Methyl-2-pyrrolidinone New Jersey spill list: N-Methyl-2-pyrrolidinone TSCA 8(b) inventory: NMethyl-

2-pyrrolidinone TSCA 4(a) final test rules: N-Methyl-2-pyrrolidinone TSCA 8(a) IUR:

N-Methyl-2-pyrrolidinone TSCA

12(b) one time export: N-Methyl-2-pyrrolidinone SARA 313 toxic chemical notification and release reporting: N-Methyl-2-pyrrolidinone

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):

CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

DSCL (EEC):

R36- Irritating to eyes. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label.

Specific hazard:

Protective Equipment:

Not applicable. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

SECTION 16. OTHER INFORMATION

HMS (U.S.A.):

Health Hazard: 2

Fire Hazard: 2

Reactivity: 0

Personal Protection: j

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Ingredients are TSCA listed.