

Offer Sheet

Product	NMP (N-Methyl-2-Pyrrolidone)
Quantity	65 pallets of totes
Net weight	~148,200 lbs.
	Distilled/recycled material 1.5% water content
Availability	One time
Location	Clearwater, FL
Date	5/12/26
SDS	Attached below



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Elk Grove Village, IL 60007
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Click here for: [Surplus Inventory](#)
[Solvent-Systems.com](#)

NMP is a **high-performance polar aprotic solvent** known for:

- strong solvency power
- high boiling point
- ability to dissolve difficult resins and polymers

It is widely used where standard solvents (IPA, acetone, MEK, toluene) are not strong enough.

1) Lithium-ion battery manufacturing (major growth market)

Use:

- Solvent for:
 - PVDF binder systems in cathode slurry production

Why NMP is used:

- Excellent solvency for PVDF
- Stable during coating operations
- High purity achievable

Industries:

- EV battery manufacturing
 - Energy storage systems
-

2) Paint stripping and industrial cleaning

Applications:

- Heavy-duty paint removers
- Graffiti removers
- Carbon/resin removal

Why it works:

- Penetrates coatings aggressively
 - Dissolves cured polymers and residues
-

3) Electronics and semiconductor cleaning

Uses:

- Precision cleaning
- Flux removal
- Photoresist processing

Why:

- High solvency with low volatility compared to lighter solvents
-

4) Petrochemical and refining operations

Uses:

- Gas purification
- Aromatics extraction
- Butadiene extraction

Why:

- Selective solvent properties
-

5) Polymer and resin manufacturing

Used with:

- Polyurethanes
- Polyimides
- Epoxies
- Engineering plastics

Function:

- Dissolves high-performance polymers that many solvents cannot handle
-

6) Coatings, inks, and adhesives

Uses:

- Industrial coatings
 - Wire coatings
 - Specialty adhesives
-

7) Pharmaceutical manufacturing

Uses:

- Reaction solvent
 - Extraction solvent
-

8) Agricultural chemicals

Uses:

- Pesticide formulations
 - Herbicide carriers
-

9) Membrane and specialty materials production

Applications:

- Filtration membranes
 - Advanced composites
 - Synthetic fibers
-



Safety Data Sheet

Material Name: N-Methyl-2-Pyrrolidone (NMP)

SDS ID: 89076

*** Section 1 - Identification ***

Product Identifier

N-Methyl-2-Pyrrolidone (NMP)

Product Code

Not available

Synonyms

Not available

Recommended Use

Solvent

Restrictions on Use

None known.

Manufacturer Information

Clean Harbors Recycling Services of Chicago, LLC

Phone: 1-773-247-2828

1445 W. 42nd Street

Chicago, IL 60609

www.cleanharbors.com

Emergency # 1-800-645-8265

Issue Date

May 5, 2015

Supersedes Issue Date

June 17, 2009

Original Issue Date

June 17, 2009

*** Section 2 - Hazard(s) Identification ***

Classification in Accordance with 29 CFR 1910.1200.

Flammable Liquids, Category 4

Skin Corrosion / Irritation, Category 2

Eye Damage / Irritation, Category 2A

Toxic to Reproduction, Category 1B

Specific Target Organ Toxicity - Single Exposure, Category 3 (respiratory system)

Specific Target Organ Toxicity - Repeated Exposure, Category 1 (adrenal gland, bone marrow, kidneys, liver, respiratory system, and spleen)

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER!

Hazard Statement(s)

Combustible liquid

Causes skin irritation.

Causes serious eye irritation.

Safety Data Sheet

Material Name: N-Methyl-2-Pyrrolidone (NMP)**SDS ID: 89076**

May damage fertility or the unborn child.

May cause respiratory tract irritation.

Causes damage to adrenal gland, bone marrow, kidneys, liver, respiratory system, and spleen through prolonged or repeated exposure.

Precautionary Statement(s)**Prevention**

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Do not breathe vapor or mist. Do not eat, drink, or smoke when using this product. Wear protective gloves/clothing and eye/face protection. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Response

In case of fire: Use carbon dioxide, regular dry chemical, regular foam, and water spray for extinction. IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash 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/attention.

Storage

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal

Dispose of in accordance with all applicable federal, state and local regulations.

Hazard(s) Not Otherwise Classified

None known.

*** Section 3 - Composition / Information on Ingredients ***

CAS	Component	Percent
872-50-4	1-Methyl-2-pyrrolidone	99-100

*** Section 4 - First Aid Measures ***

Description of Necessary Measures**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eyes

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/attention.

Ingestion

IF SWALLOWED: Do not induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Call a POISON CENTER or doctor/physician if you feel unwell.

Most Important Symptoms/Effects**Acute**

Skin irritation, eye irritation, respiratory tract irritation

Safety Data Sheet

Material Name: N-Methyl-2-Pyrrolidone (NMP)**SDS ID: 89076****Delayed**

Reproductive effects, adrenal gland effects, bone damage, kidney damage, liver damage, respiratory system damage, spleen damage

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

IF exposed: Call a POISON CENTER or doctor/physician. Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

***** Section 5 - Fire-Fighting Measures *******Suitable Extinguishing Media**

Carbon dioxide, regular dry chemical, regular foam, water spray

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Specific Hazards Arising from the Chemical

Combustible liquid and vapor. Vapors may form explosive mixture with air. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Fire may produce irritating, poisonous and/or corrosive fumes. Runoff may create fire or explosion hazard. Empty containers may contain product residue. Containers may rupture or explode.

Hazardous Combustion Products

Oxides of carbon, carbon monoxide, unidentified organic compounds

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Do not scatter spilled material with high-pressure water streams. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile). Stay upwind and keep out of low areas. Dike for later disposal.

NEPA Ratings: Health: 2 Fire: 2 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

***** Section 6 - Accidental Release Measures *******Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Clean Up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE**

CONTROLS/PERSONAL PROTECTION. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

Safety Data Sheet

Material Name: N-Methyl-2-Pyrrolidone (NMP)

SDS ID: 89076

*** Section 7 - Handling and Storage ***

Precautions for Safe Handling

Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Keep container tightly closed. Keep cool. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Empty product containers may retain product residue and can be dangerous. Store in a well-ventilated place. Store locked up. **See Section 14**, Transportation Information for Packing Group Information.

Incompatibilities

Acids, bases, oxidizing materials

*** Section 8 - Exposure Controls / Personal Protection ***

Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Appropriate Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

Individual Protective Measures, such as Personal Protective Equipment

Eyes/Face Protection

Where eye contact is likely, wear chemical goggles; contact lens use is not recommended. Wear splash resistant safety goggles with a faceshield.

Skin Protection

Wear appropriate chemical resistant gloves.

Respiratory Protection

Use NIOSH-certified, air-purifying respirators with organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air-purifying respirators is limited.

*** Section 9 - Physical & Chemical Properties ***

Appearance/Odor : Colorless to pale yellow liquid
ammonia-like odor

Boiling Point: 202°C(395.6°F)

Solubility (H₂O): Complete

Density: 8.55 Lb/gal

Evaporation Rate: Not available

LFL: 1.3%

UFL: 9.5%

Vapor Pressure: 0.3 mm Hg@ 20°C (68°F)

Vapor Density: 3.4 (air=1)

pH: Not applicable

Odor Threshold: Not available

Melting Point: -24°C(-11.2°F)

Specific Gravity: 1.026 (water=1)

Octanol/H₂O Coeff.: Not available

Auto Ignition Temperature: 346°C(655°F)

Flash Point: 92.8°C(199°F) Closed cup

Viscosity: Not available

Other Property Information

No information is available.

Safety Data Sheet

Material Name: N-Methyl-2-Pyrrolidone (NMP)**SDS ID: 89076******* Section 10 - Stability & Reactivity *******Reactivity**

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize under normal temperature and pressure conditions.

Conditions To Avoid

Avoid heat, sparks, or flame. Avoid contact with incompatible materials.

Incompatible Materials

Avoid acids, bases, and oxidizing materials.

Hazardous Decomposition Products

Burning may produce carbon dioxide, carbon monoxide, nitrogen oxides, and unidentified organic compounds. See also **Section 5, Hazardous Combustion Products.**

***** Section 11 - Toxicological Information *******Toxicity Data and Information****Component Analysis - LD50/LC50****1-Methyl-2-pyrrolidone (872-50-4)**

Dermal LD50 Rabbit 8 g/kg; Inhalation LC50 Rat 3.1 mg/L 4 h; Oral LD50 Rat 3598 mg/kg

Information on Likely Routes of Exposure**Inhalation**

May cause respiratory tract irritation, nausea, headache, drowsiness, vomiting, dizziness, and loss of coordination.

Ingestion

May cause throat irritation, nausea, vomiting, and diarrhea.

Skin Contact

Causes skin irritation.

Eye Contact

Causes eye irritation.

Immediate Effects

Skin irritation, eye irritation, respiratory tract irritation.

Delayed Effects

Reproductive effects, adrenal gland effects, bone damage, liver damage, kidney damage, respiratory system damage, spleen damage

Irritation/Corrosivity

Causes skin, eye and respiratory irritation.

Respiratory Sensitization

No information available for the product.

Skin Sensitization

No information available for the product.

Carcinogenicity**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Germ Cell Mutagenicity

No information available for the product.

Teratogenicity

No information available for the product.

Safety Data Sheet

Material Name: N-Methyl-2-Pyrrolidone (NMP)

SDS ID: 89076

Reproductive Effects

Available data characterizes components of this product as reproductive hazards.

Specific Target Organ Effects - Single Exposure

Respiratory system

Specific Target Organ Effects - Repeated Exposure

Adrenal gland effects, bone marrow, respiratory system, kidneys, liver, spleen

Aspiration Hazard

No information available for the product.

Medical Conditions Aggravated by Exposure

Skin disorders, eye disorders, respiratory disorders, kidney disorders, liver disorders

***** Section 12 - Ecological Information *****
Ecotoxicity

No information available for the product.

Component Analysis - Ecotoxicity - Aquatic Toxicity**1-Methyl-2-pyrrolidone (872-50-4)****Duration/Test/Species****Concentration/Conditions****Notes**96 Hr LC50 *Lepomis macrochirus*

832 mg/L [static]

96 Hr LC50 *Pimephales promelas*

1072 mg/L [static]

96 Hr LC50 *Poecilia reticulata*

1400 mg/L [static]

72 Hr EC50 *Desmodesmus subspicatus*

>500 mg/L

48 Hr EC50 *Daphnia magna*

4897 mg/L

Persistence and Degradability

No information available for the product.

Bioaccumulation Potential

No information available for the product.

Mobility in Soil

No information available for the product.

Other Adverse Effects

No additional information is available.

***** Section 13 - Disposal Considerations *****
Disposal Methods

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

***** Section 14 - Transport Information *****
Emergency Response Guide Number128: Reference *North American Emergency Response Guidebook***International Transportation Regulations****DOT Shipping Name:** Combustible liquid, n.o.s (Contains: 1-Methyl-2-pyrrolidone)**UN/NA #:** NA1993 **Hazard Class:** 3 **Packing Group:** III**Required Label(s):** Combustible liquid**TDG** Not regulated as dangerous goods.

Safety Data Sheet

Material Name: N-Methyl-2-Pyrrolidone (NMP)

SDS ID: 89076

*** Section 15 - Regulatory Information ***

Volatile Organic Compounds (As Regulated)

100 WT %; 8.6 LB/US gal; 1030 g/l

As per 40 CFR Part 51.100(s)

Federal Regulations**SARA 302/304****Component Analysis**

Based on the ingredient(s) listed in SECTION 3, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA 311/312 Hazardous Categories**Acute Health:** Yes **Chronic Health:** No **Fire:** Yes **Pressure:** No **Reactive:** No**SARA Section 313****Component Analysis**

This product contains a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

1-Methyl-2-pyrrolidone (872-50-4)

1.0 % de minimis concentration

CERCLA**Component Analysis**

Based on the ingredient(s) listed in SECTION 3, this product does not contain any "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

TSCA Inventory**Component Analysis**

Component	CAS #	TSCA
1-Methyl-2-pyrrolidone	872-50-4	Yes

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	MA	MN	NJ	PA	CA
1-Methyl-2-pyrrolidone	872-50-4	No	Yes	No	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Canadian Regulations

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Component Analysis

Component	CAS #	CAN
1-Methyl-2-pyrrolidone	872-50-4	DSL

Canadian WHMIS Information

B3,D2A, D2B.

Component Analysis - WHMIS IDL

Not regulated.

*** Section 16 - Other Information ***

Revision Information

Reformat to OSHA HazCom 29 CFR 1910.1200 adoption of GHS Revision 3.

Safety Data Sheet

Material Name: N-Methyl-2-Pyrrolidone (NMP)**SDS ID: 89076****Key/Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Disclaimer

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information of the product to which the information refers. The data contained on this sheet apply to the product as supplier to the user.

End of Sheet 89076