

# Buy 1-Methyl-2-Pyrrolidone Online At https://www.laballey.com/collections/nmp-1-methyl-2-pyrrolidone

# SAFETY DATA SHEET

#### 1. Identification

Product identifier	N-METHYL 2-PYRROLIDONE	
Other means of identification		
CAS number	872-50-4	
Recommended use	General purpose solvent.	
Recommended restrictions	Use in accordance with manufacturer's recommendations.	
Manufacturer/Importer/Supplier/Distributor information		
Company	Lab Alley LLC	

Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 Tel.: 512-668-9918

**Emergency phone number** 

Infotrac: 800-535-5053

#### 2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 4
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity (the unborn child)	Category 1B
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
OSHA defined hazards	Not classified.	

Label elements

Signal word **Hazard statement** 

Combustible liquid. Causes skin irritation. Causes serious eye irritation. May damage the unborn child. May cause respiratory irritation.

**Precautionary statement** Prevention

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

Danger

Response	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. 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/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%	
n-Methyl-2-pyrrolidone		872-50-4	100	
Composition comments	All concentrations are in percent by weight un	less otherwise indicated.		
4. First-aid measures				
Inhalation	Remove victim to fresh air and keep at rest in center or doctor/physician if you feel unwell.	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.		
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.			
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Get			
Ingestion	Rinse mouth. Get medical attention if symptor	ns occur.		
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.			
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and trea Symptoms may be delayed.	at symptomatically. Keep victi	m under observatio	
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical adv (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the do attendance.		of the material(s)	
5. Fire-fighting measures				
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemic	al powder. Carbon dioxide (C	02).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.			
Specific hazards arising from the chemical	The product is combustible, and heating may generate vapors which may form explosive va mixtures. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides, nitrogen oxides.			
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full pr	otective clothing must be wor	n in case of fire.	
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you c so without risk. Use water spray to keep fire-exposed containers cool.		n fire area if you car	
Specific methods	Use standard firefighting procedures and cons	sider the hazards of other invo	olved materials.	
General fire hazards	Combustible liquid.			
<b>•</b> • • • • • • • • • • • • • • • • • •				

# 6. Accidental release measures

Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all
protective equipment and	ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate
emergency procedures	protective equipment and clothing during clean-up. Avoid breathing mist/vapor. Do not touch
0 11	damaged containers or spilled material unless wearing appropriate protective clothing. Ensure
	adequate ventilation. Local authorities should be advised if significant spillages cannot be
	contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).
8 Exposure controls/pers	onal protection

#### 8. Exposure controls/personal protection

### Occupational exposure limits

Material	Тур	e	Va	llue
n-Methyl-2-pyrrolidone (CAS 872-50-4)	TW	A	40	mg/m3
			10	ppm
logical limit values				
ACGIH Biological Expos	sure Indices			
Material	Value	Determinant	Specimen	Sampling Time
n-Methyl-2-pyrrolidone (CAS 872-50-4)	100 mg/l	5-Hydroxy-N-m ethyl-2-pyrrolid one	Urine	*
* - For sampling details, p	lease see the source do	cument.		
oosure guidelines				
US - California OELs: SI	kin designation			
n-Methyl-2-pyrrolidon US WEEL Guides: Skin		Can be	absorbed throu	igh the skin.
n-Methyl-2-pyrrolidon	ie (CAS 872-50-4)	Can be	absorbed throu	igh the skin.
propriate engineering htrols	Ventilation rates s exhaust ventilation exposure limits. If	Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommender exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.		
ividual protection measu	res, such as personal	protective equipme	nt	
Eye/face protection	Chemical goggles	Chemical goggles are recommended.		
Skin protection				
Hand protection				loves can be recommended by the glove oves. Frequent change is advisable.
Skin protection				

Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Chemical respirator with organic vapor cartridge.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

## 9. Physical and chemical properties

9. Physical and chemical p	hopenies
Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Not available.
Odor threshold	Not available.
рН	7.7 - 8
Melting point/freezing point	-11.2 °F (-24 °C)
Initial boiling point and boiling range	177.8 - 179.6 °F (81 - 82 °C) at 13 hPa
	395.6 °F (202 °C)
Flash point	186.8 °F (86.0 °C) Closed Cup 204.8 °F (96.0 °C) Open Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.3 % v/v
Flammability limit - upper (%)	9.5 % v/v
Vapor pressure	0.39 - 0.43 hPa (68 °F (20 °C)) 1.32 hPa (104 °F (40 °C))
Vapor density	3.42 (air = 1)
Relative density	1.028 g/ml (77 °F (25 °C))
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	-0.46 log Pow
Auto-ignition temperature	655 °F (346.11 °C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Molecular formula	C5-H9-N-O
Molecular weight	99.13 g/mol
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

reactionsConditions to avoidKeep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid<br/>temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials	Strong oxidizing agents. Alkaline metals. Peroxides.
Hazardous decomposition	No hazardous decomposition products are known.
products	

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.		
Skin contact	Causes skin irritation.		
Eye contact	Causes serious eye irritation.		
Ingestion	May be harmful if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.		

#### Information on toxicological effects

Acute toxicity May be harmful if swallowed.

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Product	Species	Test Results
n-Methyl-2-pyrrolidone (CAS 872-	50-4)	
<u>Acute</u>		
Dermal		
LD50	Rat	> 5000 mg/kg
Inhalation		
Mist		
LC50	Rat	> 5.1 mg/l, 4 hours
Oral		
LD50	Rat	3605 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitizatior	1	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitizat	ion.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overall I	Evaluation of Carcinogenicity	
Not listed. NTP Report on Carcinogens	i	
Not listed.		
	d Substances (29 CFR 1910.1001-1053)	
Not regulated.		
Reproductive toxicity	Possible reproductive hazard. May damage the unborn child.	
Specific target organ toxicity - single exposure	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	
12. Ecological information	1	
Ecotoxicity	The product is not classified as environmentally haza possibility that large or frequent spills can have a has	

Product		Species	Test Results	
n-Methyl-2-pyrrolidone (CAS 8	372-50-4)			
Aquatic				
Acute				
Algae	EC50	Scenedesmus subspicatus	> 500 mg/l, 72 Hours	
Crustacea	EC50	Daphnia magna	> 1000 mg/l, 24 Hours	
Fish	LC50	Oncorhynchus mykiss	> 500 mg/l, 96 Hours	
Chronic				
Crustacea I	NOEC	Daphnia magna	12.5 mg/l, 21 days	
ersistence and degradability	No data is ava	ailable on the degradability of this p	roduct.	
ioaccumulative potential				
Partition coefficient n-octand -0.46	ol / water (log	Kow)		
obility in soil	No data available.			
ther adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
3. Disposal consideration	IS			
isposal instructions			ers at licensed waste disposal site. Dispose of nal/national/international regulations.	
ocal disposal regulations	Dispose in ac	cordance with all applicable regulat	ions.	
azardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.			
/aste from residues / unused roducts	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).			
ontaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container i emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.			
4. Transport information				
от				
UN number	NA1993			
UN proper shipping name	Combustible I	iquid, n.o.s. (n-Methyl-2-pyrrolidone	e)	
Transport hazard class(es) Class	Combustible I	iquid		
Subsidiary risk	-			
Label(s)	None			
Packing group	III			
Environmental hazards				
Marine pollutant	No. r Read safety instructions, SDS and emergency procedures before handling. This material is not			
Special precautions for user		ler 49 CFR if in a container of 119 g		
Special provisions	IB3, T1, T4, T	P1		
Packaging exceptions	150			
Packaging non bulk Packaging bulk	203 241			
	241			
Not regulated as dangerous go	oods.			
/DG				
Not regulated as dangerous go	oods.			
ransport in bulk according to	Not established.			
nnex II of MARPOL 73/78 and le IBC Code				
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TSCA Section 12(b) Expo	rt Notification (40 CF	R 707, Subpt, D)		
n-Methyl-2-pyrrolidone			Export Notification required	I.
CERCLA Hazardous Sub	. ,			
Not listed. SARA 304 Emergency rel	ease notification			
Not regulated. OSHA Specifically Regula	ated Substances (29	CFR 1910.1001-1053)		
Not regulated.				
Superfund Amendments and SARA 302 Extremely haz Not listed.		of 1986 (SARA)		
SARA 311/312 Hazardous	s Yes			
chemical	103			
Classified hazard	Flammable (gase Skin corrosion or	s, aerosols, liquids, or solids	;)	
categories		age or eye irritation		
	Reproductive toxi	city		
		gan toxicity (single or repeate	ed exposure)	
SARA 313 (TRI reporting)	1		0/ h	
Chemical name		CAS number 872-50-4	<b>% by wt.</b> 100	
n-Methyl-2-pyrrolidone		072-30-4	100	
Other federal regulations	ion 112 Hozardaya A	ir Pollutanta (HAPa) Liat		
Clean Air Act (CAA) Sect Not regulated.	IOIT TTZ HAZATUOUS A	ir Poliulanis (HAPS) LISI		
•	ion 112(r) Accidental	Release Prevention (40 CF	FR 68.130)	
Not regulated.	()		,	
Safe Drinking Water Act (SDWA)	Contaminate can	didate list		
US state regulations				
US. Massachusetts RTK	- Substance List			
n-Methyl-2-pyrrolidone US. New Jersey Worker a	. ,	t-to-Know Act		
n-Methyl-2-pyrrolidone US. Pennsylvania Worke		ht-to-Know Law		
n-Methyl-2-pyrrolidone US. Rhode Island RTK	e (CAS 872-50-4)			
Not regulated.				
California Proposition 65				
		se you to n-Methyl-2-pyrrolio other reproductive harm. Fo .ca.gov.		State of California to
California Propositio	n 65 - CRT: Listed da	te/Developmental toxin		
	done (CAS 872-50-4) date Chemicals List.	Listed: June 1 Safer Consumer Products		Regs, tit. 22, 69502.3,
n-Methyl-2-pyrroli	done (CAS 872-50-4)			
International Inventories				
Country(s) or region Australia	Inventory name	ory of Chemical Substances		<b>On inventory (yes/no)</b> * Yes
Canada	Domestic Substa	-	(AICS)	Yes
Canada		ibstances List (NDSL)		No
China		ing Chemical Substances in	China (IECSC)	Yes
Europe	-	ory of Existing Commercial C		Yes
Europe		Notified Chemical Substance	es (ELINCS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	11/27/23
Revision date	-
Version #	01
HMIS® ratings	Health: 2* Flammability: 2 Physical hazard: 0
Disclaimer	This product is subject to Lab Alley LLC's terms and conditions, which can be found at https://www.laballey.com/pages/terms-conditions. Lab Alley cannot anticipate all conditions under which this information and this product, or the products of other manufacturers in combination with this product, may be used. The user is responsible for the proper and safe use, handling, storage and disposal of the product, and assumes liability for any loss, injury, damage or expense arising from any failure to do so. The data in this sheet is based on information and experience available at the time of writing.