

# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : N METHYL PYRROLIDONE

CAS Number: 872-50-4 Chemical characterization : Cyclic Amide

Chemical Name : N-Methyl-2-pyrrolidinone

Synonyms : 2-Pyrrolidinone, 1-methyl-, N-Methyl-2-pyrrolidone, NMP

Use of the : Manufacture of substances, Formulation & (re)packing of Substance/Mixture substance and mixtures, Uses in Coatings, Use in Cleaning

Agents, Functional Fluids, Use in laboratories, Agrochemical

uses, Use in Road and Construction Applications

Company : Lyondell Chemical Company

LyondellBasell Tower, Suite 300

1221 McKinney St. P.O. Box 2583

Houston Texas 77252-2583

Telephone : Customer Service 888 777-0232

Product Safety 800 700-0946

Emergency telephone : CHEMTREC USA 800-424-9300

LYONDELL 800-245-4532

E-mail address product.safety@lyondellbasell.com

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Flammable Liquids Category 4
Eye irritation Category 2A
Reproductive toxicity Category 1B
Specific target organ systemic toxicity - single Category 3

exposure, Inhalation, Respiratory system, Central

nervous system

GHS Classification Scale (1= severe hazard; 4= slight hazard)

Label elements

Hazard symbols :





Signal Word : Danger

# yondellbasell Gen. Variant: SDS US GHS

# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

Hazard Statements : H227 Combustible liquid.

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H360D May damage the unborn child.

Precautionary Statements : I

: Prevention

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response

P370 + P378 In case of fire: Use dry chemical, carbon

dioxide, water spray, or alcohol-resistant foam.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P304 + P340 IF INHALED: Remove victim to fresh air and

keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/ physician if you

feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

Storage

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed. P235 Keep cool.

Other hazards

No additional information available.

#### 3. Composition/information on ingredients

**Substances** 

Chemical nature : Substance

Ingredients



# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

Chemical Name	CAS-No. EC-No.	Weight %	Component Type
N-Methyl Pyrrolidone	872-50-4	>= 99.8 %	Α

Key:

(A) Substance

#### **SECTION 4. FIRST AID MEASURES**

#### First aid procedures

General advice : This product is of low acute toxicity.

Substance is readily absorbed through the skin.

Causes eye and skin irritation.

Concentrated vapors may cause severe irritation of the eyes,

nose and respiratory tract.

May cause harm to the unborn child. Always observe self-protection methods

Wear appropriate personal protective equipment, avoid direct

contact.

Move out of dangerous area.

Remove contaminated shoes and clothing.

Get medical attention immediately.

Show this material safety data sheet to the doctor in

attendance.

If inhaled : Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

Do not leave the victim unattended. Immediately seek medical attention. Keep patient warm and at rest. If breathing is difficult, give oxygen.

If unconscious place in recovery position and seek medical

advice.

In the event of unconsciousness, apnea or cardiac arrest (no

pulse) apply cardiopulmonary resuscitation.

In case of skin contact : Appears to be readily absorbed through the skin but no

systemic toxicity is expected from acute dermal exposure.

Take off contaminated clothing and shoes immediately.

In case of contact, immediately flush skin with soap and plenty

of water

of water.

Seek medical attention if ill effect or irritation develops.

Wash contaminated clothing before reuse.

In case of eye contact : In case of eye contact, remove contact lens and rinse

immediately with plenty of water, also under the eyelids, for at

least 15 minutes.

3/16

# yondellbasell Gen. Variant: SDS US GHS

# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

Get medical attention immediately if irritation persists.

If swallowed : If victim is drowsy or unconscious, place on the left side with

head down.

If victim is conscious and able to swallow, have victim drink water to dilute. Never give anything by mouth if victim is unconscious or having convulsions. This product poses a possible lung aspiration hazard if it is ingested. Induce vomiting only if advised by physician or Poison Control Center. CALL A PHYSICIAN OR POISON CONTROL

**CENTER IMMEDIATELY!** 

If vomiting does occur, have victim lean forward to reduce risk

of aspiration.

Notes to physician

Hazards : This product may cause eye, skin, and respiratory tract

irritation. High concentrations may cause central nervous system (CNS) depression. Ingestion would likely cause

gastrointestinal tract irritation.

Treatment : Treat symptomatically.

Treatment of overexposure should be directed at the control of

symptoms and the clinical condition of the patient.

There is no specific antidote.

Potential danger from aspiration must be weighed against possible oral toxicity when deciding to induce vomiting.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Flammable properties

Flash point : 196 °F (91 °C)

at 1,013 hPa (760 mm Hg)

Method: closed cup

Autoignition temperature : 473 °F (245 °C)

at 1,013 hPa (760 mm Hg)

Lower explosion limit : ~1.3 vol%

Upper explosion limit : ~9.5 vol%

Flammability (solid, gas) : Combustible liquid.

Fire fighting

Suitable extinguishing media : SMALL FIRE: Use dry chemical, CO2, water spray or regular

foam. LARGE FIRE: Use water spray, water fog or regular

foam. Do not use straight streams.

# yondellbasell Gen. Variant: SDS US GHS

# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

Unsuitable extinguishing

media

: Do not use solid water stream.

#### Protective equipment and precautions for firefighters

Specific hazards during fire

fighting

: When heated above the flash point, releases flammable

vapors.

When mixed with air and exposed to ignition source, vapors

can burn in open or explode if confined.

Vapors may be heavier than air.

May travel long distances along the ground before igniting and

flashing back to vapor source.

Fine sprays/mists may be combustible at temperatures below

normal flash point.

Move containers from fire area if it can be done without risk. Fight fire from maximum distance or use unmanned hose

holders or monitor nozzles.

Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of burns/injuries. Cool containers with flooding quantities of water until well after

fire is out.

Withdraw immediately in case of rising sound from venting

safety devices or discoloration of tank.

Always stay away from tanks engulfed in fire.

For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire

burn.

Do not allow run-off from fire fighting to enter drains or water

courses.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: Wear positive pressure self-contained breathing apparatus

(SCBA).

Structural firefighter's protective clothing will only provide

limited protection.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Clean-up to be performed only by trained and properly

equipped personnel.

Wear recommended personal protective equipment.

Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions : Prevent entry into waterways, sewers, basements or confined

areas.

If the product contaminates rivers and lakes or drains inform

respective authorities.

If necessary, all contaminated waste water must be treated in a municipal or industrial wastewater treatment plant before

# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

release to surface water.

Chemical removal by air and water pollution control devices must meet the minimum efficiency requirements needed to reduce exposures to an acceptable level.

The discharge of treatment plant effluent to rivers and oceans must achieve the dilution ratio needed to reduce exposures to an acceptable level.

The size and capacity of wastewater treatment plants must meet the minimum requirements needed to reduce exposures to an acceptable level.

Waste management practices such as incineration, recycling, reuse must be enforced as needed to reduce exposures to an acceptable level.

External treatment and disposal of waste should comply with applicable local and/or national regulations.

The maximum allowable site tonnage and the days of use should be below the number needed to maintain exposures at an acceptable level.

Methods for containment / Methods for cleaning up

: Combustible liquid.

Eliminate all sources of ignition.

All equipment used when handling this product must be

grounded.

Do not touch or walk through spilled material.

Stop leak if you can do it without risk.

A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible

material and transfer to containers.

Use clean non-sparking tools to collect absorbed material. Dike large spills and place materials in salvage containers. Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Treat all waste as hazardous and dispose using licenced waste removal company.

#### **SECTION 7. HANDLING AND STORAGE**

#### Handling

Advice on safe handling : Use only in area provided with appropriate exhaust ventilation.

Handle empty containers with care - residue may be

combustible and burn if exposed to heat/sparks/open flame. In addition to the fire/explosion hazard, residual vapor and

liquid may also be toxic.

Keep container tightly closed when not in use. Keep away from heat and sources of ignition.

Isolate, vent, drain, wash and purge systems or equipment

before maintenance or repair.

Wear recommended personal protective equipment.

Avoid contact with incompatible agents.



## N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

Observe precautions pertaining to confined space entry.

Advice on protection against

fire and explosion

: Keep away from heat and sources of ignition.

**Storage** 

Requirements for storage areas and containers

: Mild or stainless steel.

Store away from heat, sparks, open flames, strong oxidizing

agents and direct sunlight.

Keep container tightly closed and properly labeled.

### 8. Exposure controls/personal protection

#### **Control parameters**

#### Ingredients with workplace control parameters

Consult local authorities for acceptable exposure limits.

#### **Biological Exposure Indices**

Ingredients	CAS-No.	Control	Biological	Sampling	Concentration	Basis
		parameters	specimen	time		
N-Methyl Pyrrolidone	872-50-4	5-Hydroxy-N- methyl-2- pyrrolidone	urine	end of shift	100 mg/l	ACGIH_BEI S

#### **Exposure controls**

#### **Engineering measures**

At elevated temperatures, special ventilation may be required even if the flash point has not been exceeded.

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

#### Personal protective equipment

Respiratory protection : No occupational exposure limits have been developed for this

material.

: When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Hand protection : Use chemical resistant gloves appropriate to conditions of

use.

Wear chemical resistant gloves such as:

Butyl rubber.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

# yondellbasell

# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

Eye and face protection : Eye protection, including both chemical splash goggles and

face shield, must be worn when possibility exists for eye contact due to splashing/spraying liquid, airborne particles, or

vapor.

Skin and body protection : When skin contact is possible, protective clothing including

gloves, apron, sleeves, boots, head and face protection

should be worn.

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Use PPE that is chemical resistant to the product and

prevents skin contact.

Hygiene measures : Selection of appropriate personal protective equipment should

be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered

during use.

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Use good personal hygiene practices.

Wash hands before eating, drinking, smoking, or using toilet

facilities.

Take off contaminated clothing and wash before reuse.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** 

Physical state : liquid

Color : Clear, colorless.

Odor : Amine-like odor.

Safety data

Flash point :  $196 \,^{\circ}\text{F} \, (91 \,^{\circ}\text{C})$ 

at 1,013 hPa (760 mm Hg)

Method: closed cup

Lower explosion limit : ~1.3 vol%

Upper explosion limit : ~9.5 vol%

Flammability (solid, gas) : Combustible liquid.

Oxidizing properties : The substance or mixture is not classified as oxidizing.

8/16

# yondellbasell Gen. Variant: SDS\_US\_GHS

# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

Autoignition temperature : 473 °F (245 °C)

at 1,013 hPa (760 mm Hg)

Decomposition temperature : not determined

pH : no data available

Melting point/range : -11.6 °F (-24.2 °C)

at 1,013 hPa (760 mm Hg)

Boiling point/boiling range : 399 °F (204 °C)

at 1,013 hPa (760 mm Hg)

Vapor pressure : 0.32 hPa (0.24 mm Hg)

at 68 °F (20 °C)

Density : 1.03 g/cm3

at 77 °F (25 °C)

Water solubility : 1,000 g/l

at 68 °F (20 °C) completely miscible

Partition coefficient: n-

octanol/water

: log Pow: -0.46 at 77 °F (25 °C)

Relative vapor density : ~3.4

at 59.9 - 90.0 °F (15.5 - 32.2 °C)

(Air = 1.0)

Explosive properties : not applicable

Remarks - Other information : hygroscopic

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under recommended storage conditions.

Conditions to avoid : In contact with moisture, this hygroscopic (i.e., absorbs water

from the air) material may degrade or become contaminated. Heat, sparks, open flame, other ignition sources, and oxidizing

conditions.



# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

Materials to avoid : Strong oxidizing agents.

Strong reducing agent. Moisture and humidity.

Hazardous decomposition

products

: Carbon monoxide and nitrogen oxide fumes emitted when

heated to decomposition.

Thermal decomposition : Incomplete combustion may produce carbon monoxide,

oxides or compounds of nitrogen and other toxic gases.

Hazardous reactions : Not expected to occur.

Stable.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Product Summary : The below given information is based on the assessment of

the product including impurities.

**Acute toxicity** 

**Acute oral toxicity** : Based on acute toxicity values, not classified.

Ingestion may cause discomfort and irritation of the

gastrointestinal tract.

: LD50 Oral: 4,150 mg/kg

Species: rat

**Acute inhalation toxicity**: Based on acute toxicity values, not classified.

LC50: > 5.1 mg/l

Exposure time: 4 HOURS

Species: rat

**Acute dermal toxicity** : Based on acute toxicity values, not classified.

: LD50: > 5,000 mg/kg

Species: rat

Skin corrosion/irritation : Not classified

May cause mild skin irritation

Serious eye damage/eye

irritation

: Classified

Causes serious eye irritation.

# yondellbasel Gen. Variant: SDS US GHS

# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

Respiratory or skin

: Not classified

sensitization

No adverse effect observed.

**Chronic toxicity** 

Carcinogenicity : Not classified

This product has had a positive finding in a carcinogenic investigation. The findings do not appear to be relevant to classification due to the non genotoxic mechanism and the

species sensitivity to the liver tumors observed.

Germ cell mutagenicity : Not classified

No adverse effect observed.

Reproductive toxicity

Effects on fertility / : Not classified

Effects on Development : Classified

May damage the unborn child.

Target Organ Systemic Toxicant - Single exposure

: Routes of exposure: Inhalation Target Organs: Respiratory system

Classified, May cause respiratory irritation.

Target Organ Systemic Toxicant - Repeated

exposure

: Based on repeated exposure toxicity values, not classified.

**Aspiration hazard** : Based on physico-chemical values or lack of human evidence,

not classified.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Based on acute aquatic toxicity values, not classified.

Chronic aquatic toxicity : Not classified, based on readily biodegradability and low acute

toxicity.

Toxicity to fish

Acute toxicity to fish is very low.



# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

Toxicity to daphnia and other aquatic invertebrates

: Low acute toxicity to aquatic invertebrates.

**Toxicity to algae** : Low toxicity to algae.

**Toxicity to bacteria** : Low toxicity to sewage microbes.

**Toxicity to fish (Chronic** 

toxicity)

: no data available

study scientifically unjustified

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity)

: Low chronic toxicity to aquatic invertebrates.

Persistence and degradability

**Biodegradability** : Readily biodegradable

: BOD (Modified MITI Method) = 73% (28 days).

Bioaccumulative potential

**Bioaccumulation** : Not expected to bioaccumulate in aquatic organisms.

Mobility in soil

Distribution among environmental compartments

: Stability in soil no data available

Low potential for soil adsorption expected

: Stability in water

Hydrolysis expected to be very slow.

Half-life >1 year

(QSAR calculated value)

Additional advice Environmental fate and

pathways

: No additional information available.

Results of PBT and vPvB assessment

Not applicable.

Other adverse effects

Additional ecological

information

: No additional information available.

# yondellbasell Gen. Variant: SDS US GHS

## N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Further information : Dispose of as hazardous waste in compliance with local and

national regulations.

The product should not be allowed to enter drains, water

courses or the soil.

Incinerate concentrated liquids in compliance with local, state

or international regulations.

Contaminated product, soil, water, container residues and spill

cleanup materials may be hazardous wastes.

Comply with applicable local, state or international regulations

concerning solid or hazardous waste disposal and/or

container disposal.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT

UN number : NA1993

Description of the goods : Combustible liquid, n.o.s.

: (N-METHYL PYRROLIDONE)

Class : CL
Packing group : III
Labels : 3

#### **SECTION 15. REGULATORY INFORMATION**

#### **SARA 302/304**

This product contains no known chemicals regulated under SARA 302/304.

#### **SARA 311/312**

Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312:

Immediate (Acute) Health Hazard.

Fire Hazard.

#### SARA 313

This product contains no known chemicals regulated under SARA 313.

#### **State Reporting**



# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

This material is not known to contain a chemical substance known to the State of California to cause cancer, reproductive, or developmental toxicity under California Proposition 65. However, LyondellBasell has not tested for the presence of listed chemical substances.

This product contains no known chemicals regulated by New Jersey's Worker and Community Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

This product contains no known chemicals regulated by Pennsylvania's Right to Know Act.

#### Other international regulations

#### **Global Inventory Status**

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

\*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant

#### REACh status

If the product has been purchased from any company of the LyondellBasell group of companies registered in the European Union, we confirm that the chemical substance in this product has been pre-registered or, where required under REACh, registered, and that we have the intention to proceed with any required registration in accordance with the deadlines set forth in REACh. (Regulation (EU) No. 1907/2006)

Contact product.safety@lyondellbasell.com for additional global inventory information.

#### **SECTION 16. OTHER INFORMATION**

**Further information** 

HMIS Classification : Health Hazard: 2

Chronic Health Hazard: \* Flammability: 2

Physical hazards: 0



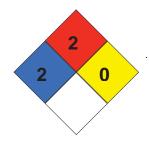


# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

NFPA Classification : Health Hazard: 2

Fire Hazard: 2 Instability: 0



#### Other Information

NFPA rating scale (0 = minimal hazard; 4 = severe hazard) HMIS rating scale (0 = minimal hazard; 4 = severe hazard)

#### Material safety datasheet sections which have been updated:

Revised Section(s): 2 June 26 2014 Updated format; Revised Section(s): 1 - 16 June 26 2014

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yondellbasell Gen. Variant: SDS\_US\_GHS

# N METHYL PYRROLIDONE

Version 1.1 Revision Date 07/01/2014 Print Date 07/14/2014 SDS No.: BE1006

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## **Language Translations**

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