

CAS No: 872-50-4 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substan	ce/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
	:
EC index no	: 606-021-00-7
EC no	: 212-828-1
CAS No	: 872-50-4
Product code	: 4674A
Formula	: C5H9NO
Chemical structure	N CH ₃
Synonyms	: N-Methyl-2-pyrrolidone / 1-Methyl-2-pyrrolidone / NMP / M-PYROL
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against

1.2.1. Relevant identified uses

Example 1 Eaboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Reproductive toxicity, Category 1B	H360D
Serious eye damage/eye	H319
irritation, Category 2 Skin corrosion/irritation,	H315

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Category 2 Specific target organ H335 toxicity — Single exposure, Category 3, Respiratory tract irritation

Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Repr.Cat.2; R61 Xi; R36/37/38 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS08 GHS07
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H360D - May damage the unborn child
Precautionary statements (CLP)	 P201 - Obtain special instructions before use P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308+P313 - IF exposed or concerned: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients	
3.1. Substance	
Name	: N-METHYL-2-PYRROLIDONE GC GRADE
CAS No	: 872-50-4
EC no	: 212-828-1
EC index no	: 606-021-00-7

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Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
	: IF exposed or concerned: Get medical advice/attention.
•	 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.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see on this label).
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/injuries	: May damage the unborn child.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
4.3. Indication of any immediate med	ical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
	: dry chamical nowder, alcohol registent form, carbon diavide (CO2)
	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
No additional information available	
SECTION 6: Accidental release measures	
6.4 Devenden vegetiene protective	
	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Stop release.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	ment and cleaning up
	: Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

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6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handlin	
	-
Precautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash thoroughly after handling.
7.2. Conditions for safe storage,	including any incompatibilities
Storage conditions	: Keep container tightly closed. Store in original container. Store in a dry place.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	onal protection
8.1. Control parameters	
No additional information available	

8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Molecular mass	: 99.13 g/mol
Colour	: Colorless to pale yellow.
Odour	: slight amine odor.
Odour threshold	: No data available
рН	: 7.7 - 8
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -24 °C
Freezing point	: No data available
Boiling point	: 202 °C
Flash point	: 91 °C
Auto-ignition temperature	: No data available

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Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 0.39 - 0.43 at 20 °C
Relative vapour density at 20 °C	: 3.42
Relative density	: No data available
Density Solubility	: 1.028 g/cm³ : Water: Miscible with water
Log Pow	: -0.46
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.013 - 0.095 vol %
9.2. Other information No additional information available SECTION 10: Stability and reactivity	
10.1.ReactivityNo additional information available	
10.2.Chemical stabilityStable under normal conditions.	
10.3. Possibility of hazardous rea	ctions
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Open flame. Overheatin	ng. Heat. Sparks.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition p	products

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological informati	ion	
11.1. Information on toxicological	l effects	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
	pH: 7.7 - 8	
Serious eye damage/irritation	: Causes serious eye irritation.	
	рН: 7.7 - 8	
Respiratory or skin sensitisation	: Not classified	

: Not classified

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Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	May damage the unborn child.May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3.	Bioaccumulative potential	
N-ME	THYL-2-PYRROLIDONE GC GRADE	: (872-50-4)
Log P	Yow	-0.46

12.4. Mobility in soil

No additional information available

12.5.	Results of PBT and vPvB assessment
N-MET	THYL-2-PYRROLIDONE GC GRADE (872-50-4)
This sı	ubstance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This sı	ubstance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No.(IATA)	: Not applicable
UN-No.(ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
Transport hazard class(es) (ADR)	: Not applicable
IMPC	
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
Transport hazard class(es) (IATA)	
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport No data available

- Transport by sea No data available

- Air transport

No data available

- Inland waterway transport

No data available

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Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H360D	May damage the unborn child
R36/37/38	Irritating to eyes, respiratory system and skin
R61	May cause harm to the unborn child
Xi	Irritant

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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- Rail transport

No data available

14.7.	Transport in bulk according	to Anney II of MARPOL	73/78 and the IBC Code
14.7.	mansport in bulk according		I JI O and the IDC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

1-Methyl-2-pyrrolidone is on the REACH Candidate List N-METHYL-2-PYRROLIDONE GC GRADE is not on the REACH Annex XIV List

15.1.2. National regulations

: Water hazard class (WGK) 1, slightly hazardous to water (KBwS-Beschluss; WGK No 1181)
: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
: Class III-1
: 50 liter
: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
: Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 1B	Reproductive toxicity, Category 1B