Material Safety Data Sheet

Methyl2pyrrolidonen (RXSOL-19-1359-210)

1. Product and Company Identifaction

Product Name	RXSOL-19-1359-210
Product Type	N-Methyl Pyrrolidone

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / informationon ingredients

Chemical Name	CAS Number	EC Number	Index number
N -methyl-2-pyrrolidone	872-50-4	212-828-1	606-021-00-7

3. Hazards Identification

Hazard description:
Information concerning particular hazards for human and environment:
R 36/38 Irritating to eyes and skin.

4. First Aid Measures

After inhalation	In case of unconsciousness place patient stably in side position for transportation.
After skin contact	Immediately wash with water and soap and rinse thoroughly.
After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing	If symptoms persist consult doctor.

5. Fire-fighting Measures

Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards caused by the substance, its products of combustion or resulting gases: During heating or in case of fire poisonous gases are produced.
Protective equipment: Mouth respiratory protective device.

6. Accidental Release Measures

Person-related safety precautions: Mount respiratory protective device.
Measures for environmental protection: Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/collecting: Dilute with plenty of water

7. Handling and Storage

Handling:
Information for safe handling: No special requirement
Information about fire - and explosion protection: Keep respiratory protective device available.
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep container tightly sealed.

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

872-50-4 N-methyl-2-pyrrolidone

WEEL (USA)	10 ppm Skin
WEL (Great Britain)	Short-term value: 309 mg/m³, 75 ppm Long-term value: 103 mg/m³, 25 ppm Sk

Additional information: The lists valid during the making were used as basis.
Personal protective equipment:
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.Wash hands before breaks and at the end of work.Avoid contact with the eyes and skin.
Respiratory protection: Not required.
Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection: Tightly sealed goggles

9. Physical and chemical properties

General Information	
Form	Fluid
Colour	Colourless
Odour	Amine-like
Change in condition	
Melting point/Melting range	-24°C
Boiling point/Boiling range	202°C

Flash point	93°C
Ignition temperature	270°C
Danger of explosion	Product does not present an explosion hazard.
Explosion limits:	
Lower	1.3 Vol %
Upper	9.5 Vol %
Vapour pressure at 20°C	0.3 hPa
Density at 20°C	1.026 g/cm³
Solubility in / Miscibility with water	Fully miscible.
pH-value (100 g/l) at 20°C	l. basisch
Viscosity	
Dynamic at 25°C	1.65 mPas

10. Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Dangerous reactions No dangerous reactions known.
Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

Oral	LD50	3914 mg/kg (rat)
Dermal	LD50	8000 mg/kg (rabbit)

Primary irritant effect:	
on the skin	Irritant to skin and mucous membranes.
on the eye	Irritating effect.
Sensitization	No sensitizing effects known.

12. Ecological information

General notes: Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal considerations

Product:
Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.
Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. Transport information

Land transport ADR/RID (cross-border)
• ADR/RID class: -
• Maritime transport IMDG:
• IMDG Class: -
• Marine pollutant: No

• Air transport ICAO-TI and IATA-DGR:
• ICAO/IATA Class: -

15. Regulatory information

Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
• **Risk phrases:**
36/38 Irritating to eyes and skin.
• **Safety phrases:**
2 Keep out of the reach of children.
41 In case of fire and/or explosion do not breathe fumes.

16. Other information

This information is based on our present knowledge.However, this shall not constitute a guarantee for anys pecific product features and shall not establish a legally valid contractual relationship.

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