CAS No: 872-50-4 MSDS



## **MATERIAL SAFETY DATA SHEET (MSDS)**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier**

Product form : Substance

EC index no : 606-021-00-7 EC no : 212-828-1 CAS No : 872-50-4 Product code : 04674 Formula : C5H9NO

#### Relevant identified uses of the substance or mixture and uses advised against 1.2.

#### 1.2.1 Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

#### 1.2.2. **Uses advised against**

No additional information available

#### Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14, SKY INDUSTRIAL ESTATE, WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

#### **SECTION 2: Hazards identification**

### Classification of the substance or mixture

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

Reproductive toxicity, H360D

Category 1B

H319

Serious eye damage/eye

Skin corrosion/irritation, H315

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

09/04/2015 1/9 www.spanlab.in

## Safety Data Sheet

#### 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



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 FOR HPLC

CAS No : 872-50-4 EC no : 212-828-1 EC index no : 606-021-00-7

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

#### 3.2. Mixture

Not applicable

www.spanlab.in 09/04/2015 2/9

## Safety Data Sheet

### **SECTION 4: First aid measures**

#### **Description of first aid measures**

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation 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.

Wash with plenty of soap and water. Wash contaminated clothing before reuse. If First-aid measures after skin contact

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.

#### Most important symptoms and effects, both acute and delayed 4.2.

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 medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### **Extinguishing media**

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use a heavy water stream.

## Special hazards arising from the substance or mixture

No additional information available

#### **Advice for firefighters**

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, 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.

### Methods and material for containment and cleaning up

Methods for 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.

## Reference to other sections

No additional information available

www.spanlab.in 09/04/2015 3/9

## Safety Data Sheet

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

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/personal 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 properties**

### 9.1. Information on basic physical and 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

pH : 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

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

www.spanlab.in 09/04/2015 4/9

## Safety Data Sheet

Vapour pressure : 0.39 - 0.43 at 20 °C

Relative vapour density at 20 °C : 3.42

Relative density : No data available

Density : 1.028 g/cm<sup>3</sup>

Solubility : 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. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Direct sunlight. Overheating. Open flame. Heat. Sparks.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

### **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes skin irritation.

pH: 7.7 - 8

Serious eye damage/irritation : Causes serious eye irritation.

pH: 7.7 - 8

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

www.spanlab.in 09/04/2015 5/9

## Safety Data Sheet

Reproductive toxicity

: 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 classified

## **SECTION 12: Ecological information**

#### **Toxicity**

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. **Bioaccumulative potential**

#### N-METHYL-2-PYRROLIDONE FOR HPLC (872-50-4)

-0.46 Log Pow

#### 12.4. **Mobility in soil**

No additional information available

#### 12.5. Results of PBT and vPvB assessment

## N-METHYL-2-PYRROLIDONE FOR HPLC (872-50-4)

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

#### Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal

: Dispose of contents/container to ...

recommendations

### **SECTION 14: Transport information**

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

#### 14.1. **UN** number

UN-No. (ADR) : Not applicable UN-No. (IMDG) : Not applicable UN-No.(IATA) : Not applicable

www.spanlab.in 09/04/2015 6/9

## Safety Data Sheet

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)

## ADR

Transport hazard class(es) (ADR) : Not applicable

#### **IMDG**

Transport hazard class(es) (IMDG) : Not applicable

#### IATA

Transport hazard class(es) (IATA) : Not applicable

#### 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

## - Rail transport

No data available

www.spanlab.in 09/04/2015 7/9

## Safety Data Sheet

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC 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 FOR HPLC is not on the REACH Annex XIV List

#### 15.1.2. National regulations

#### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 1, slightly hazardous to water (KBwS-Beschluss; WGK

No 1181)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### **Denmark**

Class for fire hazard : Class III-1 Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management

guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : 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
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

www.spanlab.in 09/04/2015 8/9

## Safety Data Sheet

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

www.spanlab.in 09/04/2015 9/9