

**CAS-No.: MSDS**

## MATERIAL SAFETY DATA SHEET (MSDS)

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

#### 1.1. Product identifier

Product form : Mixture  
:  
Product code : 5101B

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

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial  
For professional use only

##### 1.2.2. Uses advised against

No additional information available

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

LOBA CHEMIE PVT.LTD.  
107 Wode House Road, Jehangir Villa, Colaba  
400005 Mumbai - INDIA  
T +91 22 6663 6663 - F +91 22 6663 6699  
[info@lobachemie.com](mailto:info@lobachemie.com) - [www.lobachemie.com](http://www.lobachemie.com)

#### 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

|  |      |
|--|------|
| Flammable liquids,<br>Category 2                                   | H225 |
| Acute toxicity (oral),<br>Category 3                               | H301 |
| Acute toxicity (dermal),<br>Category 3                             | H311 |
| Acute toxicity (inhal.),<br>Category 3                             | H331 |
| Specific target organ<br>toxicity — single<br>exposure, Category 1 | H370 |

Full text of H statements : see section 16

# PAN 1% w/v INDICATOR SOLUTION IN METHANOL

## Safety Data Sheet

### 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) :



GHS02

GHS06

GHS08

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour.  
H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled  
H370 - Causes damage to organs.

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name             | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|------------------|--|---------|--|
| methanol         | (CAS-No.) 67-56-1<br>(EC-No.) 200-659-6<br>(EC Index-No.) 603-001-00-X | 99 - 99 | Flam. Liq. 2, H225<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Oral), H301<br>STOT SE 1, H370 |
| PAN INDICATOR AR | (CAS-No.) 85-85-8  | 1 - 1   | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>STOT SE 3, H335   |

Full text of H-statements: see section 16

# PAN 1% w/v INDICATOR SOLUTION IN METHANOL

## Safety Data Sheet

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.   |
| First-aid measures after eye contact  | : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. 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 effects, both acute and delayed

|                                     |                               |
|-------------------------------------|-------------------------------|
| Symptoms/effects                    | : Causes damage to organs.    |
| Symptoms/effects after inhalation   | : Toxic if inhaled.           |
| Symptoms/effects after skin contact | : Toxic in contact with skin. |
| Symptoms/effects after ingestion    | : Toxic if swallowed.         |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO <sub>2</sub> ). |
| Unsuitable extinguishing media | : Do not use a heavy water stream.  |

#### 5.2. Special hazards arising from the substance or mixture

|                  |  |
|------------------|--|
| Fire hazard      | : Highly flammable liquid and vapour.    |
| Explosion hazard | : Heating may cause a fire or explosion. |

#### 5.3. 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 | : Avoid contact with skin, eyes and clothing. |
|----------------------|---|

##### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Use personal protective equipment as required. |
|----------------------|--|

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

|                         |  |
|-------------------------|--|
| Methods for cleaning up | : Clean contaminated surfaces with an excess of water. |
|-------------------------|--|

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Avoid contact with skin and eyes.   |
| Hygiene measures              | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |

#### 7.2. Conditions for safe storage, including any incompatibilities

|                    |  |
|--------------------|--|
| Storage conditions | : Store in a well-ventilated place. Keep container tightly closed. |
|--------------------|--|

# PAN 1% w/v INDICATOR SOLUTION IN METHANOL

## Safety Data Sheet

### 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            |
| Colour                                     | : Clear orange.     |
| Odour                                      | : No data available |
| Odour threshold                            | : No data available |
| pH   | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : $\geq -98$ °C     |
| Freezing point                             | : No data available |
| Boiling point                              | : No data available |
| Flash point                                | : 9.7 °C            |
| Auto-ignition temperature                  | : No data available |
| Decomposition temperature                  | : No data available |
| Flammability (solid, gas)                  | : No data available |
| Vapour pressure                            | : No data available |
| Relative vapour density at 20 °C           | : No data available |
| Relative density                           | : No data available |
| Solubility                                 | : No data available |
| Log Pow                                    | : No data available |
| Viscosity, kinematic                       | : No data available |
| Viscosity, dynamic                         | : No data available |

# PAN 1% w/v INDICATOR SOLUTION IN METHANOL

## Safety Data Sheet

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

### 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. Heat. Open flame. Overheating. 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 : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.

|                     |                      |
|---------------------|----------------------|
| ATE CLP (oral)      | 100 mg/kg bodyweight |
| ATE CLP (dermal)    | 300 mg/kg bodyweight |
| ATE CLP (gases)     | 700 ppmv/4h          |
| ATE CLP (vapours)   | 3 mg/l/4h            |
| ATE CLP (dust,mist) | 0.5 mg/l/4h          |

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Causes damage to organs.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

# PAN 1% w/v INDICATOR SOLUTION IN METHANOL

## Safety Data Sheet

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

No additional information available

### SECTION 14: Transport information

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

#### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 1230 |
| UN-No. (IMDG) | : 1230 |
| UN-No. (IATA) | : 1230 |
| UN-No. (ADN)  | : 1230 |
| UN-No. (RID)  | : 1230 |

#### 14.2. UN proper shipping name

|                                       |   |
|---------------------------------------|---|
| Proper Shipping Name (ADR)            | : METHANOL                                  |
| Proper Shipping Name (IMDG)           | : METHANOL                                  |
| Proper Shipping Name (IATA)           | : Methanol                                  |
| Proper Shipping Name (ADN)            | : METHANOL                                  |
| Proper Shipping Name (RID)            | : METHANOL                                  |
| Transport document description (ADR)  | : UN 1230 METHANOL, 3 (6.1), II, (D/E)      |
| Transport document description (IMDG) | : UN 1230 METHANOL, 3 (6.1), II (12°C c.c.) |
| Transport document description (IATA) | : UN 1230 Methanol, 3 (6.1), II             |
| Transport document description (ADN)  | : UN 1230 METHANOL, 3 (6.1), II             |
| Transport document description (RID)  | : UN 1230 METHANOL, 3 (6.1), II             |

# PAN 1% w/v INDICATOR SOLUTION IN METHANOL

## Safety Data Sheet

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 3 (6.1)

Danger labels (ADR) : 3, 6.1



#### IMDG

Transport hazard class(es) (IMDG) : 3 (6.1)

Danger labels (IMDG) : 3, 6.1



#### IATA

Transport hazard class(es) (IATA) : 3 (6.1)

Hazard labels (IATA) : 3, 6.1



#### ADN

Transport hazard class(es) (ADN) : 3 (6.1)

Danger labels (ADN) : 3, 6.1



#### RID

Transport hazard class(es) (RID) : 3 (6.1)

Danger labels (RID) : 3, 6.1



### 14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

# PAN 1% w/v INDICATOR SOLUTION IN METHANOL


## Safety Data Sheet

### 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

|   |   |
|---|---|
| Classification code (ADR)   | : FT1   |
| Special provisions (ADR)  | : 279   |
| Limited quantities (ADR)  | : 1I  |
| Excepted quantities (ADR)   | : E2  |
| Packing instructions (ADR)  | : P001, IBC02   |
| Mixed packing provisions (ADR)  | : MP19  |
| Portable tank and bulk container instructions (ADR)                     | : T7  |
| Portable tank and bulk container special provisions (ADR)               | : TP2   |
| Tank code (ADR)   | : L4BH  |
| Tank special provisions (ADR)   | : TU15  |
| Vehicle for tank carriage   | : FL  |
| Transport category (ADR)  | : 2   |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13, CV28  |
| Special provisions for carriage - Operation (ADR)                       | : S2, S19   |
| Hazard identification number (Kemler No.)                               | : 336   |
| Orange plates   | :  |
| Tunnel restriction code (ADR)   | : D/E   |
| EAC code  | : •2WE  |
| APP code  | : A(fl)   |

#### - Transport by sea

|                                    |  |
|------------------------------------|--|
| Special provisions (IMDG)          | : 279  |
| Limited quantities (IMDG)          | : 1 L  |
| Excepted quantities (IMDG)         | : E2   |
| Packing instructions (IMDG)        | : P001   |
| IBC packing instructions (IMDG)    | : IBC02  |
| Tank instructions (IMDG)           | : T7   |
| Tank special provisions (IMDG)     | : TP2  |
| EmS-No. (Fire)                     | : F-E  |
| EmS-No. (Spillage)                 | : S-D  |
| Stowage category (IMDG)            | : B  |
| Stowage and handling (IMDG)        | : SW2  |
| Flash point (IMDG)                 | : 12°C c.c.  |
| Properties and observations (IMDG) | : Colourless, volatile liquid. Flashpoint: 12°C c.c. Explosive limits: 6% to 36.5% Miscible with water. Toxic if swallowed; may cause blindness. Avoid skin contact. |

#### - Air transport

|                                |        |
|--------------------------------|--------|
| PCA Excepted quantities (IATA) | : E2   |
| PCA Limited quantities (IATA)  | : Y341 |



# PAN 1% w/v INDICATOR SOLUTION IN METHANOL

## Safety Data Sheet

|  |        |
|--|--------|
| PCA limited quantity max net quantity (IATA) | : 1L   |
| PCA packing instructions (IATA)              | : 352  |
| PCA max net quantity (IATA)                  | : 1L   |
| CAO packing instructions (IATA)              | : 364  |
| CAO max net quantity (IATA)                  | : 60L  |
| Special provisions (IATA)                    | : A113 |
| ERG code (IATA)                              | : 3L   |

### - Inland waterway transport

|                                   |                      |
|-----------------------------------|----------------------|
| Classification code (ADN)         | : FT1                |
| Special provisions (ADN)          | : 279, 802           |
| Limited quantities (ADN)          | : 1 L                |
| Excepted quantities (ADN)         | : E2                 |
| Carriage permitted (ADN)          | : T                  |
| Equipment required (ADN)          | : PP, EP, EX, TOX, A |
| Ventilation (ADN)                 | : VE01, VE02         |
| Number of blue cones/lights (ADN) | : 2                  |

### - Rail transport

|   |               |
|---|---------------|
| Classification code (RID)   | : FT1         |
| Special provisions (RID)  | : 279         |
| Limited quantities (RID)  | : 1L          |
| Excepted quantities (RID)   | : E2          |
| Packing instructions (RID)  | : P001, IBC02 |
| Mixed packing provisions (RID)  | : MP19        |
| Portable tank and bulk container instructions (RID)                     | : T7          |
| Portable tank and bulk container special provisions (RID)               | : TP2         |
| Tank codes for RID tanks (RID)  | : L4BH        |
| Special provisions for RID tanks (RID)                                  | : TU15        |
| Transport category (RID)  | : 2           |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW28  |
| Colis express (express parcels) (RID)                                   | : CE7         |
| Hazard identification number (RID)                                      | : 336         |

### 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

# PAN 1% w/v INDICATOR SOLUTION IN METHANOL

## Safety Data Sheet

### 15.1.2. National regulations

#### Germany

Reference to AwSV : Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; 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

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of H- and EUH-statements:

|                           |  |
|---------------------------|--|
| Acute Tox. 3 (Dermal)     | Acute toxicity (dermal), Category 3  |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3  |
| Acute Tox. 3 (Oral)       | Acute toxicity (oral), Category 3  |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2  |
| Flam. Liq. 2              | Flammable liquids, Category 2  |
| Skin Irrit. 2             | Skin corrosion/irritation, Category 2  |
| STOT SE 1                 | Specific target organ toxicity — single exposure, Category 1                               |
| STOT SE 3                 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H225                      | Highly flammable liquid and vapour.  |
| H301                      | Toxic if swallowed.  |
| H311                      | Toxic in contact with skin.  |
| H315                      | Causes skin irritation.  |
| H319                      | Causes serious eye irritation.   |
| H331                      | Toxic if inhaled.  |

# PAN 1% w/v INDICATOR SOLUTION IN METHANOL

## Safety Data Sheet

|      |                                   |
|------|-----------------------------------|
| H335 | May cause respiratory irritation. |
| H370 | Causes damage to organs.          |

*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*