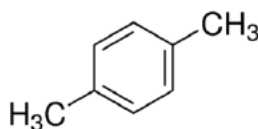


### MATERIAL SAFETY DATA SHEET (MSDS)

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

##### 1.1. Product identifier

Product form : Substance  
:  
EC no : 203-396-5  
CAS No : 106-42-3  
Product code : 6499D  
Chemical structure :



Synonyms : 1,4-Dimethylbenzene

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

###### 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

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

Labogens Fine Chem Industries  
1st Floor , Above Bank of India, Guru Vihar , Rahon Road,  
Ludhiana Pb. (141007)  
+91 9316777775, +91 7707855700  
[sales@labogens.com](mailto:sales@labogens.com) - [www.Labogens.com](http://www.Labogens.com)

##### 1.4. Emergency telephone number

Emergency number : +91 7707855700 (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, H226  
Category 3  
Acute toxicity (dermal), H312  
Category 4  
Acute toxicity (inhal.), H332  
Category 4  
Skin corrosion/irritation, H315  
Category 2

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

# p-XYLENE FOR HPLC

## Safety Data Sheet

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

Xn; R20/21

Xi; R38

R10

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)



GHS02

GHS07

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H226 - Flammable liquid and vapour  
H312+H332 - Harmful in contact with skin or if inhaled  
H315 - Causes skin irritation

Precautionary statements (CLP)

: P280 - Wear protective gloves/protective clothing/eye protection/face protection

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

| Name              | Product identifier                     | %   |
|-------------------|--|-----|
| p-XYLENE FOR HPLC | (CAS No) 106-42-3<br>(EC no) 203-396-5 | 100 |

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

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.

# p-XYLENE FOR HPLC

## Safety Data Sheet

|                                       |  |
|---------------------------------------|--|
| First-aid measures after skin contact | : Wash with plenty of soap and water. Gently wash with plenty of soap and water.   |
| 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/injuries after inhalation   | : Toxic if inhaled.                                     |
| Symptoms/injuries after skin contact | : Causes skin irritation. Harmful in contact with skin. |
| Symptoms/injuries after ingestion    | : Harmful 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 | : Flammable liquid and vapour. |
|-------------|--------------------------------|

### 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 | : 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 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. |
|-------------------------|--|

### 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 | : Do not get in eyes, on skin, or on clothing.  |
| 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 original container. Keep container tightly closed. Store in a dry place. Protect from moisture. |
|--------------------|--|

### 7.3. Specific end use(s)

No additional information available

# p-XYLENE FOR HPLC

## Safety Data Sheet

### 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 fire/flame resistant/retardant 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                             | : 106.17 g/mol      |
| Colour                                     | : Clear Colorless.  |
| Odour                                      | : No data available |
| Odour threshold                            | : No data available |
| pH   | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : No data available |
| Freezing point                             | : No data available |
| Boiling point                              | : No data available |
| Flash point                                | : No data available |
| 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 |
| Explosive properties                       | : No data available |

# p-XYLENE FOR HPLC

## Safety Data Sheet

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. Overheating. Open flame.

### 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 : Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

# p-XYLENE FOR HPLC

## Safety Data Sheet

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### 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)  | : 1307 |
| UN-No. (IMDG) | : 1307 |
| UN-No.(IATA)  | : 1307 |
| UN-No.(ADN)   | : 1307 |
| UN-No. (RID)  | : 1307 |

### 14.2. UN proper shipping name

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Proper Shipping Name (ADR)            | : XYLENES                             |
| Proper Shipping Name (IMDG)           | : XYLENES                             |
| Proper Shipping Name (IATA)           | : XYLENES                             |
| Proper Shipping Name (ADN)            | : XYLENES                             |
| Proper Shipping Name (RID)            | : XYLENES                             |
| Transport document description (ADR)  | : UN 1307 XYLENES, 3, III, (D/E)      |
| Transport document description (IMDG) | : UN 1307 XYLENES, 3, III (23°C c.c.) |
| Transport document description (IATA) | : UN 1307 XYLENES, 3, III             |
| Transport document description (ADN)  | : UN 1307 XYLENES, 3, III             |
| Transport document description (RID)  | : UN 1307 XYLENES, 3, III             |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 3 |
| Danger labels (ADR)              | : 3 |

# p-XYLENE FOR HPLC

## Safety Data Sheet



### IMDG

Transport hazard class(es) (IMDG) : 3

Danger labels (IMDG) : 3



### IATA

Transport hazard class(es) (IATA) : 3

Hazard labels (IATA) : 3



### ADN

Transport hazard class(es) (ADN) : 3

Danger labels (ADN) : 3



### RID

Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3



### 14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

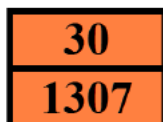
# p-XYLENE FOR HPLC

## Safety Data Sheet

### 14.6. Special precautions for user

#### - Overland transport

|   |                           |
|---|---------------------------|
| Classification code (ADR)                                 | : F1                      |
| Limited quantities (ADR)                                  | : 5L                      |
| Excepted quantities (ADR)                                 | : E1                      |
| Packing instructions (ADR)                                | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR)                            | : MP19                    |
| Portable tank and bulk container instructions (ADR)       | : T2                      |
| Portable tank and bulk container special provisions (ADR) | : TP1                     |
| Tank code (ADR)   | : LGBF                    |
| Vehicle for tank carriage                                 | : FL                      |
| Transport category (ADR)                                  | : 3                       |
| Special provisions for carriage - Packages (ADR)          | : V12                     |
| Special provisions for carriage - Operation (ADR)         | : S2                      |
| Hazard identification number (Kemler No.)                 | : 30                      |
| Orange plates   | :                         |



|                               |       |
|-------------------------------|-------|
| Tunnel restriction code (ADR) | : D/E |
| EAC code                      | : 3YE |

#### - Transport by sea

|                                 |                     |
|---------------------------------|---------------------|
| Special provision (IMDG)        | : 223               |
| Limited quantities (IMDG)       | : 5 L               |
| Excepted quantities (IMDG)      | : E1                |
| Packing instructions (IMDG)     | : P001, LP01        |
| IBC packing instructions (IMDG) | : IBC03             |
| Tank instructions (IMDG)        | : T2                |
| Tank special provisions (IMDG)  | : TP1               |
| EmS-No. (Fire)                  | : F-E               |
| EmS-No. (Spillage)              | : S-D               |
| Stowage category (IMDG)         | : A                 |
| Flash point (IMDG)              | : 23°C to 30°C c.c. |

#### - Air transport

|  |        |
|--|--------|
| PCA Excepted quantities (IATA)               | : E1   |
| PCA Limited quantities (IATA)                | : Y344 |
| PCA limited quantity max net quantity (IATA) | : 10L  |
| PCA packing instructions (IATA)              | : 355  |
| PCA max net quantity (IATA)                  | : 60L  |
| CAO packing instructions (IATA)              | : 366  |
| CAO max net quantity (IATA)                  | : 220L |
| Special provision (IATA)                     | : A3   |
| ERG code (IATA)                              | : 3L   |

#### - Inland waterway transport

|                           |       |
|---------------------------|-------|
| Classification code (ADN) | : F1  |
| Limited quantities (ADN)  | : 5 L |
| Excepted quantities (ADN) | : E1  |



# p-XYLENE FOR HPLC

## Safety Data Sheet

|                                   |             |
|-----------------------------------|-------------|
| Carriage permitted (ADN)          | : T         |
| Equipment required (ADN)          | : PP, EX, A |
| Ventilation (ADN)                 | : VE01      |
| Number of blue cones/lights (ADN) | : 0         |

### - Rail transport

|   |                           |
|---|---------------------------|
| Classification code (RID)                                 | : F1                      |
| Limited quantities (RID)                                  | : 5L                      |
| Excepted quantities (RID)                                 | : E1                      |
| Packing instructions (RID)                                | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (RID)                            | : MP19                    |
| Portable tank and bulk container instructions (RID)       | : T2                      |
| Portable tank and bulk container special provisions (RID) | : TP1                     |
| Tank codes for RID tanks (RID)                            | : LGBF                    |
| Transport category (RID)                                  | : 3                       |
| Special provisions for carriage – Packages (RID)          | : W12                     |
| Colis express (express parcels) (RID)                     | : CE4                     |
| Hazard identification number (RID)                        | : 30                      |

### 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

p-XYLENE FOR HPLC is not on the REACH Candidate List

p-XYLENE FOR HPLC is not on the REACH Annex XIV List

#### 15.1.2. National regulations

##### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 2, hazardous to water (Classification according to VwVwS, Annex 2; WGK No 206)

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

##### Denmark

Recommendations Danish Regulation : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

# p-XYLENE FOR HPLC

## Safety Data Sheet

### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

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

|                           |  |
|---------------------------|--|
| Acute Tox. 4 (Dermal)     | Acute toxicity (dermal), Category 4            |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4            |
| Flam. Liq. 3              | Flammable liquids, Category 3                  |
| Skin Irrit. 2             | Skin corrosion/irritation, Category 2          |
| H226                      | Flammable liquid and vapour                    |
| H312                      | Harmful in contact with skin                   |
| H315                      | Causes skin irritation                         |
| H332                      | Harmful if inhaled                             |
| R10                       | Flammable                                      |
| R20/21                    | Harmful by inhalation and in contact with skin |
| R38                       | Irritating to skin                             |
| Xi                        | Irritant                                       |
| Xn                        | Harmful  |

*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*