

## Material Safety Data Sheet

### Para xylene

#### Section 1 - Product Identification

Synonyms : P-xylene; 1,4-Dimethylbenzene  
Molecular Weight : 106.17 g/mol  
Chemical Formula : C<sub>8</sub>H<sub>10</sub>  
Company Identification : Tradeasia International Pte. Limited  
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore  
Tel: +65-6227 6365  
Fax: +65-6225 6286  
Email: [contact@chemtradeasia.com](mailto:contact@chemtradeasia.com)

Recommended use of the chemical and restrictions on use:

#### Section 2 – Composition/Information on Ingredients

Chemical Name	EC/CAS No	Weight, %
p - xylene	106-42-3	<= 100%

#### Section 3 – Hazards Identification

##### 3.1 Classification of the substance or mixture

Flammable liquids (Category 3), H226  
Acute toxicity, Inhalation (Category 4), H332  
Acute toxicity, Dermal (Category 4), H312  
Skin corrosion/irritation (Category 2), H315

##### 3.2 Label elements

Signal word - Warning  
Hazard statement(s)  
H226 - Flammable liquid and vapour.  
H312 - Harmful in contact with skin.  
H315 - Causes skin irritation.  
H332 - Harmful if inhaled.

## Precautionary statement(s)

### Prevention

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 – Keep container tightly closed

P240 – Ground/bond container and receiving equipment

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 – Wear protective gloves/ eye protection/ face protection

### Response

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P331 - Do NOT induce vomiting.

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol - resistant foam to extinguish.

### Storage

P403 + P235 - Store in a well-ventilated place. Keep cool.

### Disposal

P501 – Dispose of contents / container to an approved waste disposal plant.

## 3.3 Other hazards

None

## Section 4 – First-Aid Measures

### 4.1. Description of first aid measures

#### Skin contact

Wash off with soap and plenty of water. Consult a physician.

#### Eye contact

Flush eyes with water as a precaution.

#### Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### Precaution

N.A.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

N.A.

### **Section 5 – Fire Fighting Measures**

#### **5.1. Suitable Extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **5.2. Specific hazards arising from the chemical**

Carbon oxides.

#### **5.3. Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **Section 6 – Accidental Release Measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

##### **6.1.1 For non-emergency personnel**

N.A

##### **6.1.2. For emergency personnel**

N.A

#### **6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

### **Section 7 – Handling and Storage**

#### **7.1. Precautions for safe Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### **7.2.1 Incompatible product**

N.A.

#### **7.2.2 Incompatible materials**

N.A.

### **Section 8 – Exposure Controls/Personal Protection**

#### **8.1. Control parameters**

#### **8.2. Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **8.3. Individual protection measures, such as personal protective equipment (PPE)**

##### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to engine protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### **Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Fluorinated rubber

Minimum layer thickness: 0,7 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm

Break through time: 30 min

test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Body protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Other information**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## **Section 9 – Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

Appearance : colourless liquid

Odour : N.A.

Odour threshold : N.A.

pH @ 25° C : N.A

Melting point : -12 - -13 °C

Boiling point : 138 °C

Density: N.A.

Flash point : 25 °C – closed cup

Evaporation rate : N.A.

Flammability : N.A.

Upper/lower flammability or explosive limits : Upper explosion limit: 7 % (V)

Lower explosion limit: 1,1 %(V)

Vapour pressure : 21,3 hPa at 37,7 °C

Vapour density : N.A.

Relative density: 0,861 g/cm<sup>3</sup> at 20 °C

Solubility: partially soluble in water

Auto-ignition temperature : 529,0 °C

Decomposition temperature : N.A.

Viscosity : N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

## **Section 10 – Stability and Reactivity**

### **10.1. Reactivity**

N.A.

### **10.2. Chemical stability**

Stable under recommended storage conditions.

### **10.3. Possibility of hazardous reactions**

N.A

### **10.4. Conditions to avoid:**

Heat, flames and sparks.

### **10.5. Incompatible materials**

Strong oxidizing agents.

### **10.6. Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

## **Section 11 – Toxicological Information**

### **Information on toxicological effects**

#### **Acute toxicity**

LD50 Oral - Rat - 5.000 mg/kg

LD50 Oral – Rat - male – 3.523 mg/kg

Lc50 Inhalation – Rat – 4h – 4550 ppm

Remarks: Lungs, Thorax, or Respiration: Chronic pulmonary edema. Liver: Other changes. Blood: Changes in cell count (unspecified)

#### **Skin corrosion / irritation**

Skin - Rabbit

Result: Moderate skin irritation. -4 h

#### **Serious eye damage/ irritation**

N.A.

#### **Respiratory or skin sensitization**

N.A.

**Germcell mutagenicity**

N.A.

**Carcinogenicity**

N.A.

**Reproductive toxicity**

May cause reproductive disorders.

**STOT-single exposure**

N.A.

**STOT-repeated exposure**

N.A.

**Aspiration Hazard**

N.A.

**Potential health effects**

N.A

## Section 12 – Ecological Information

### 12.1.Toxicity

Toxicity to fish

LC50 - Oncorhynchus mykiss (rainbow trout) - 2,60 mg/l - 96 h(p-Xylene)

LC50 - Carassius auratus (goldfish) - 18,00 mg/l-24 h(p-Xylene)

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 35,50 -63,10 mg/l-48 h(p-Xylene)

Toxicity to algae

EC50 - Pseudokirchneriella subcapitata (green algae) - 3,20 -4,40 mg/l-72 h(p-Xylene)

### 12.2. Persistence and degradability

Biodegradability

Result: 87,8% - readily biodegradable.

### 12.3. Bioaccumulative potential

N.A

### 12.4. Mobility in soil

N.A.

### 12.5. Other adverse effects

Harmful to aquatic life with long lasting effects.

## Section 13 – Disposal Considerations

### 13.1. Disposal methods Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable.Offer surplus and non-recyclable solutions to a licensed disposal company.

### 13.2 Ecotoxicity Effect

N.A.

## Section 14 – Transport Information

14.1. UN number : N.A.

14.2. UN proper shipping name : N.A

14.3. Transport of hazard classes : N.A

14.4. Packing group : N.A

14.5. Environmental hazards : N.A.

14.6. Special precautions for user : N.A

14.7. Incompatible materials: Strong oxidising agents

## Section 15 – Regulatory Information

### 15.1. Safety, health and environmental regulations for the substance/mixture

#### Notification status:

U.S. EPA TSCA Inventory	Listed
-------------------------	--------

Canadian DSL	Listed
--------------	--------

EINECS	Listed
--------	--------

South Korea	N.A.
-------------	------

Japanese MITI	N.A.
---------------	------

Ensure all national/local regulations are observed.

## Section 16 : Additional Information

Revision date: 31/7/2019

Other information: None.

### 16.1. Disclaimer of Liability

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its accuracy, reliability or completeness. The conditions or methods of handling, storage use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. This MSDS was prepared



and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

