### SAFETY DATA SHEET

In According with 3rd revision GHS SDS

#### Section 1 – Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
<th>Mixed Xylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTHER NAMES</td>
<td>&quot;xylene (mixed isomers)&quot;, C8-H10, C6H4(CH3)2, methyltoluene, &quot;methyl toluene&quot;, dimethylbenzene, &quot;dimethyl benzene&quot;, Xylol (Mixed Xylene)</td>
</tr>
<tr>
<td>PRODUCT USE</td>
<td>A strong solvent for general use in the manufacture of paints, varnishes, lacquers, thinners, inks, rubber, pesticides, herbicides and paint strippers.</td>
</tr>
</tbody>
</table>

**SUPPLIER**

Company: IRPC Public Company Limited  
Address: 299 Moo.5 Sukhumvit Road, TumbonChern-nern, AmphurMuang, Rayong 21000, THAILAND  
Telephone: +66 38802560

#### Section 2– Hazards Identification

Classification according to Regulation (EC) No. 1272/2008 (CLP) and GHS Classification

- Acute Toxicity Category 4
- Flammable Liquid Category 3
- Skin Corrosion/Irritation Category 2

**PICTOGRAMS**

**SIGNAL WORD**  
WARNING

**HAZARD STATEMENTS**

- H226 Flammable liquid and vapour.
- H332 Harmful if inhaled.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
**PRECAUTIONARY STATEMENTS**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion- proof electrical/ventilating/lighting/ equipment
P242 Use only non- sparking tools
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hand thoroughly after handling.
P271 Use only outdoors or in a well- ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a POISON CENTER or doctor/physician if you feel unwell
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P403+P235 Store in a well- ventilated place. Keep cool.
P501 Dispose of contents/containers in accordance with local regulation.

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**Section 3 – Composition / Information on Ingredients**

**Hazardous substance(s) or complex substance(s)**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS Number</th>
<th>EC Number</th>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>215-535-7</td>
<td>&gt; 98 %</td>
</tr>
</tbody>
</table>

**Hazardous constituents contained in complex substances**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS Number</th>
<th>EC Number</th>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>p-Xylene</td>
<td>106-42-3</td>
<td>203-396-5</td>
<td>17 - 18 %</td>
</tr>
<tr>
<td>m-Xylene</td>
<td>108-38-3</td>
<td>203-576-3</td>
<td>25 - 27 %</td>
</tr>
<tr>
<td>o-Xylene</td>
<td>95-47-6</td>
<td>202-422-2</td>
<td>38 - 40 %</td>
</tr>
<tr>
<td>Ethyl benzene</td>
<td>100-41-4</td>
<td>202-849-4</td>
<td>&lt; 18 %</td>
</tr>
</tbody>
</table>

This product contains mixed isomers, p-Xylene, m-Xylene, o-Xylene and Ethylbenzene.
Section 4 – First-aid Measures

Skin Exposure
Immediately remove all contaminated clothing, including footwear.
Flush skin and hair with running water (and soap if available).
Seek medical attention in event of irritation.

Eyes Exposure
Wash out immediately with fresh running water.
Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
Seek medical attention without delay; if pain persists or recurs seek medical attention.

Inhalation
If fumes or combustion products are inhaled remove from contaminated area.
If the patient is not breathing spontaneously, administer rescue breathing.

Ingestion
DO NOT induce vomiting.
Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
Seek medical advice.

Section 5 – Fire-fighting Measures

Suitable extinguishing agents
Foam, Dry chemical, CO2, water spray or fog – Large fires only.

Fire fighting
Alert Fire Brigade and tell them location and nature of hazard.
May be violently or explosively reactive.
Prevent, by any means available, spillage from entering drains or water course.
DO NOT approach containers suspected to be hot.
Cool fire exposed containers with water spray from a protected location.

Hazards during fire-fighting
Carbon monoxide (CO), carbon dioxide (CO₂), other pyrolysis products typical of burning organic material.

Protective equipment
Section 6 – Accidental Release Measures

Personal Precautions
Avoid breathing vapours and contact with skin and eyes.

Cleanup
Small Spills:
Contain and absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste.

Large Spills:
Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. Should not be released into the environment.

Section 7 – Handling and Storage

Handling
Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid generation of static electricity. DO NOT use plastic buckets. Prevent concentration in hollows and sumps.

Storage conditions
Store in original containers in approved flammable liquid storage area. Store away from incompatible materials in a cool, dry, well-ventilated area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. Protect containers against physical damage and check regularly for leaks. No smoking, naked lights, heat or ignition sources. Storage tanks should be above ground and diked to hold entire contents.
### Section 8 – Exposure Controls / Personal Protection

#### Exposure limits

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Reference</th>
<th>STEL ppm</th>
<th>STEL mg/m³</th>
<th>TWA ppm</th>
<th>TWA mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene (o, m, p isomers)</td>
<td>ACGIH</td>
<td>150</td>
<td>-</td>
<td>100</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Canada-British Columbia OEL</td>
<td>150</td>
<td>-</td>
<td>100</td>
<td>-</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>ACGIH</td>
<td>125</td>
<td>-</td>
<td>100</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Canada-British Columbia OEL</td>
<td>125</td>
<td>-</td>
<td>100</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Exposure controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work station location.

#### Personal protective equipments

**Respiratory protection**  
Type A* Filter of sufficient capacity. Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.

**Eye protection**  
Safety glasses with side shields. Chemical goggles.

**Protective clothing**  
PVC protective suit may be required if exposure severe. Chemical splash suit

**Hand protection**  
Wear chemical protective gloves, eg. PVC, Wear safety footwear or safety gumboots, eg. Rubber.

*A(All classes) = Organic vapours*
**Section 9–Physical and Chemical Properties**

**State**  
Liquid

**Melting Range**  
– 48 to 13 °C

**Viscosity**  
Not Applicable

**Boiling Range**  
138-143 °C

**Solubility in water**  
Immiscible

**Flash Point**  
27 °C

**pH (1% solution)**  
Not applicable

**Decomposition Temp (°C)**  
Not Applicable

**Autoignition Temp**  
495-516 °C

**Vapour Pressure**  
0.5 kPa @15 °C

**Upper Explosive Limit (%)**  
7.7

**Lower Explosive Limit (%)**  
1.1

**Specific Gravity (water=1)**  
0.87 @15 °C

**Relative Vapour Density (air=1)**  
3.66 @15 °C

**Volatile Component (%vol)**  
100

**Section 10 – Chemical Stability**

**Chemical Stability**  
Stable under recommended storage conditions.

**Dangerous reaction**  
Reacts violently with strong oxidizing agents.

**Condition to Avoid**  
Avoid heat, sparks, open flames and other ignition sources.

**Material to Avoid**  
Strong oxidizing agents.

**Dangerous decomposition**  
Carbon monoxide (CO), carbon dioxide (CO₂), other pyrolysis products typical of burning organic material.
Section 11 – Toxicological Information

Acute Toxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Route</th>
<th>Species</th>
<th>Acute Toxic Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>Oral</td>
<td>Rat</td>
<td>LD$_{50}$ 4300 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD$_{50}$ 1700 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Inhalation</td>
<td>Rat</td>
<td>LC$_{50}$ 5000 ppm/4h</td>
</tr>
<tr>
<td></td>
<td>Oral</td>
<td>Human</td>
<td>LDLo 50 mg/kg</td>
</tr>
</tbody>
</table>

Irritating/corrosive effects

Eye Irritation
Can cause severe eye irritation depending on concentration.

Skin Irritation
May cause moderate inflammation.

Respiratory Irritation
The product can cause respiratory irritation and irritation can cause further lung damage. If exposure to highly concentrated vapour atmosphere is prolonged this may lead to narcosis, unconsciousness.

Ingestion Irritation
May cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result.

Other information

Carcinogenic effect:
International Agency for Research on Cancer (IARC): Group 3
- Agents Reviewed by the IARC Monographs

Section 12 – Ecological Information

Aquatic toxicity

LC$_{50}$ 13.5 mg/l/96 h: Oncorhynchusmykiss (Fresh fish)
EC$_{50}$ 1.4 mg/l/24 h: Palaemonetespugio (Crustacea)

Persistence and degradability
This product is biodegraded in groundwater samples under aerobic conditions and may be degraded under anaerobic denitrifying conditions.

Bioaccumulative potential
Product is not expected to significantly bioaccumulate in aquatic organisms.

Mobility in soil
The product is expected to leach with moderate soil mobility.

Other adverse effects
N.A.
Section 13 – Disposal Considerations

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal.

In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.

Section 14 – Transport Information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Class</th>
<th>Packing group</th>
<th>Label</th>
<th>Proper Shipping Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>1307</td>
<td>3</td>
<td>III</td>
<td><img src="image" alt="Label" /></td>
<td>XYLENES</td>
</tr>
<tr>
<td>ADR / RID</td>
<td>1307</td>
<td>3</td>
<td>III</td>
<td><img src="image" alt="Label" /></td>
<td>XYLENES</td>
</tr>
<tr>
<td>IMDG</td>
<td>1307</td>
<td>3</td>
<td>III</td>
<td><img src="image" alt="Label" /></td>
<td>XYLENES</td>
</tr>
<tr>
<td>ICAO / IATA</td>
<td>1307</td>
<td>3</td>
<td>III</td>
<td><img src="image" alt="Label" /></td>
<td>XYLENES</td>
</tr>
</tbody>
</table>
Section 15 – Regulatory Information

REGULATIONS
US. Toxic Substances Control Act
All components of this product are on the TSCA Inventory.

NFPA - USA
Health – 2, Flammability – 3, Reactivity – 0

HMIS - USA
Health – 2, Flammability – 3, Reactivity – 0

European Inventory of Existing Commercial Chemical Substances (EINECS)
The components of this product are on the EINECS inventory.

EU Directives 67/548/EEC
Classification Xn

Symbols

R-Phrases
R10: Flammable
R20/21: Harmful by inhalation and in contact with skin
R3B: Irritating to skin.

S-Phrases
S2: Keep out of the reach of children.
S25: Avoid contact with eyes.

Canada - WHMIS
This product has a WHMIS classification of B2, D2A and D2B.
Section 16 – Other Information

The information in this document is based on our best present. Nevertheless, it does not constitute a guarantee for any specific product features and does not establish any a legally binding contract.

DOT  Department of Transportation
ADR  European agreement concerning the international carriage of dangerous goods by road.
RID  Regulations concerning the international carriage of dangerous goods by rail.
IMDG – CODE  International maritime dangerous goods code
ICAO  International Civil Aviation Organization
IATA  International air transport association
GHS  Globally Harmonized System of Classification and Labeling of Chemicals
CLP  Classification and Labeling of Packaging
IARC  International Agency for Research on Cancer
NFPA  National Fire Protection Association
HMIS  Hazardous Materials Identification System
OSHA  Occupational Safety and Health Administration
NIOSH  The National Institute for Occupational Safety and Health
ACGIH  American Conference of Industrial Hygienists
WHMIS  Workplace Hazardous Materials Information System

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