Safety Data Sheet

Xylene

1. Identification of the substance or mixture and of the supplier

Trade name	:	Xylene , Mixed-Xylene
Maker	:	IRPC
Material Uses	:	As a solvent for industrial manufacturing processes.
Supplier	:	SP PETROCHEMICAL SOLUTION CO.,LTD.
Address	:	440/4-6 Prachachuen Road, Bangsue, Bangsue, Bangkok 10800 Thailand
Telephone	:	+66 2 913 7999 (Auto 20 lines)
Fax	:	+66 2 586 0990-4
Website	:	www.srithanaperfect.com
E-mail	:	info@srithanaperfect.com
Emergency Contact	:	+66 21921777

2. Hazards Identification

GHS Classification	:	Flammable liquids : Category 3 Acute toxicity : Category 4 Skin Irritation : Category 2
Signal word	:	Warning
Health Hazard	:	Harmful by inhalation and in contact with skin. Risk of serious damage to eyes. Irritating to skin, eye and respiratory system.
Environmental Hazard	:	Annex 2 substance under review by the EU commission Toxic effect on fish and plankton.

GHS Pictogram :

GHS Hazard statements :

: H226 Flammable liquid and vapour.

: H312 Harmful in contact with s kin.

: H315 Causes skin Irritation.

: H332 Harmful if inhaled.

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces and non 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 measure against static discharge.

P261 Avoid breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/eye protection/face protection.

Response

<u>If on skin</u>

P303+P361+P353	Remove/Take off immediately all contaminated clothing. Rinseskin with water/shower.
P370+P378	In case of fire: Use manufacturer/supplier or the competent authority to specify appropriate media for extinction.

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If in eye

P305+P351+P338	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

If inhaled

P304+P340	Remove victim to fresh air and keep at rest in a position comfortable for breathing.

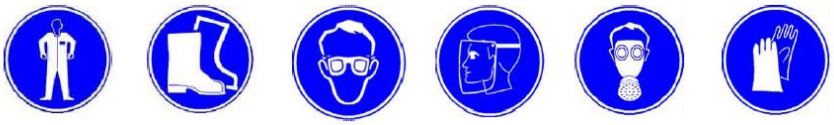
Storage

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P235	Keep cool.
P405	Store locked up.

Disposal

P501	Disposal should be in accordance with applicable regional,national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

Precautionary Pictograms



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3. Composition/Information on ingredients

Chemical Name	:	Methyl-Benzene
Common Name	:	Xylene
Synonyms Name	:	Phenyl Methane
CAS No.	:	1330-20-7
UN No.	:	1307
Molecular Weight	:	106.2
Molecular Formula	:	$C_6H_4(CH_3)_2$

4. First aid measures

Inhalation
Remove to fresh air. If the victim has difficulty breathing or tightness of the chest, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

Skin Contact
Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 10 minutes, and follow by washing with soap and water if available

Eye Contact
Immediately flush eyes with large amounts of water for at least 10 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.

Ingestion
Immediately make victim drink plenty of water. Do not induce vomiting; Do not eat milk and castor oil, transport to nearest medical facility for additional treatment.

5. Fire Fighting Measures

Clear fire area of all non-emergency personnel.

Extinguishing Media
Water spray or fog, Dry chemical powder, Alcohol- resistant foam and carbon dioxide

Protective Equipment
Wear full protective clothing and self-contained breathing apparatus

Additional Advice
Keep adjacent containers cool by spraying with water

6. Accidental release measures

Protective Measures

● Observe all relevant local and international regulations

● Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see chapter 8 in this Material Safety Data Sheet. Shut off leaks. If possible without personal risk. Remove all possible sources of ignition in the surrounding area. Prevent from spreading entering drains, ditches or river by suing sand, earth, or other appropriate barriers

● Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Clean Up Methods
● For small spillage (<200 LT) : Transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

● For large spillage (>200 LT) : Transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Other Information: Notify Authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

7. Handling and Storage

Handling
Avoid contact with skin, eyes and clothing. Do not breathe vapors. Extinguish any naked flame. Remove ignition sources. Avoid sparks. Do not smoke. The vapor is heavier than air spreads along the ground and distant ignition is possible. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not use compressed air for filling, discharging, or handling operations. Handle and open container with care in well-ventilated areas. Do not empty into drains.

Storage
Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Bulk storage tanks should be diked (bunded). Keep away from aerosols, flammable, oxidizing agents, corrosives. Storage Temperature: Ambient.

Product Transfer
Keep containers closed when not in use. Do not use compressed air for filling, discharging, or handling operations. If positive displacement pumps are used, these must be fitted with a non-integral pressure relief valve. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Recommended Materials
For containers or container linings, use mild steel, stainless steel.

Additional advice
Containers even those that have been emptied, can obtain explosive vapors. Do not cut, grind, weld or perform similar operations on or near containers.

8. Exposure Controls/Personal Protection

Engineering Controls Workplace
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor below their respective threshold limit value.

Respiratory Protection
Vapor respirator. Be sure to use an approved/certified respirator when ventilation is inadequate.

Hand Protection
Butyl rubber gloves, Natural rubber gloves, Neoprene rubber gloves, Nitrile rubber gloves.

Eye Protection
Chemical splash goggles.

Protective Clothing
Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

9. Physical and Chemical properties

Appearance	:	Clear liquid.
Odour	:	Specially odour.
pH Value	:	No data available.
Boiling Point (°C)	:	138. ºC
Melting Point (°C)	:	- 25 ºC
Flash Point	:	25 ºC (Abel)
Evaporating Rate	:	0.7 (n-Butyl Acetate = 1)
Lower/Upper Flammability limits	:	1-7 %V
Vapour Pressure (mmHg)	:	7-9 mmHg @ 20 ºC
Specific Gravity	:	0.867 @ 20 ºC (ASTM D4052)

Density (g/cm3)	:	0.866 - 0.868 @ 20 ºC (ASTM D4052)
Vapour Density	:	3.7 @ 20 ºC (air = 1)
Solubility in Water	:	Slightly dissolve @ 20 ºC (515 g/m3)
Auto Ignition Temperature	:	527 ºC

10. Stability and Reactivity

Stability	:	Stable under normal conditions.
Conditions to Avoid	:	Heat, flame, spark and other ignition sources.
Materials to Avoid	:	Strong oxidizing agents, alkaline agent, and strong reducing agent.
Hazardous Decomposition	:	Thermal decomposition is highly dependent on condition. Carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation. May form explosive peroxides

11. Toxicological Information

Acute Toxicity

LD_{50} Acute oral toxicity	:	4,300 mg/kg (rat)
LD_{50} Acute dermal toxicity	:	>1,700 mg/kg (rabbit)
Toxicity		
LC_{50} Acute Inhalation	:	5,000 ppm/4 hours, (rat)

Skin Irritation

Irritating to skin. Prolonged/ repeated exposure may cause defatting of the skin which can lead to dermatitis

Eye Irritation
Irritating to eyes

Respiratory Irritation
Inhalation of vapors or mists may cause irritation to the respiratory system and may cause drowsiness and dizziness.

Carcinogenicity
No data available.

12. Ecological Information

Acute Toxicity

Fish	:	Low toxicity : LC50 86 mg/l
Aquatic Invertebrates	:	Low toxicity : EC50 165 mg/l
Mobility	:	Slightly dissolves in water. If product enters soil, it will highly mobile and may contaminate groundwater.
Persistence / Degradability	:	Readily biodegradable.
Bio-accumulation	:	Not expected to bioaccumulate significantly.

13. Disposal Considerations

Material Disposal
: Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

Container Disposal
: Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

Local legislation

: Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

14. Transport information

Road/Rail Transport ADR/RID

UN. Number	:	1307
Class	:	3/31(C)
Packing Group	:	III
Hazard Symbol	:	Flammable liquid
Proper Shipping Name	:	Xylene

Maritime Transport IMO

UN. Number	:	1307
Class	:	3.3
Packing Group	:	III
Hazard Symbol	:	Flammable liquid
Proper Shipping Name	:	Xylene
Maritime Pollutant	:	No

Air Transport IATA/ICAO

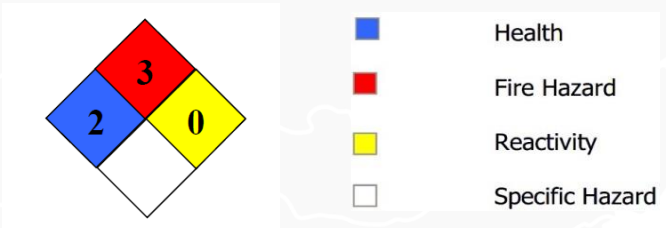
UN. Number	:	1307
Class	:	3
Packing Group	:	III
Hazard Symbol	:	Flammable liquid
Proper Shipping Name	:	Xylene

15. Regulatory Information

EC Label Name	:	Xylene
EC Classification	:	Flammable, Harmful, Dangerous for the environment.
EINECS (EC)	:	21-535-7
MITI (Japan)	:	601-022-00-9

16. Other Information

National Fire Protection Association (USA)



SDS Distribution	:	The information in this document should be made available to all who may handle the product.

Disclaimer :

This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.