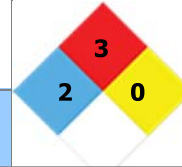




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P-XYLENE

1 Identification of the substance or mixture and of the supplier

1.1 GHS Product name or GHS product identifier

1.1.1 Common name P-XYLENE
1.1.2 Chemical formula C₈H₁₀
1.1.3 Commercial name Paraxylene
1.1.4 CAS number 106-42-3
1.1.5 Molecular weight 106.17

1.2 Other product identifier

1.2.1 UN Number 1307
1.2.2 Annex I, EU directive 67/948/EC:
1.2.3 EC number

1.3 Recommendation for use and other prohibitions for use product

1.4 Manufacturer or Supplier Detail

1.4.1 Manufacturer or Supplier : PTT Global Chemical Public Company Limited
1.4.2 Address : 4, I-2 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Mueang Rayong, Rayong 21150 Thailand.
1.4.3 Telephone number : 66(0) 3899-4000 ext. 5755, 5799

1.5 Emergency telephone number : **66(0) 3897-2222**

1.6 Other information

1.6.1 Hazardous substance No Yes

1.6.2 Hazardous category : N/A

1.6.3 Max quantity storage :

1.6.4 Uses

product

1.6.5 Other

2

Hazards identification

2.1. GHS classification of the substance/mixture and any national or regional information

2.1.1. Hazard classification according to the GHS

- Flammable liquids - Category 3
- Acute Toxicity: Oral - Category 5
- Acute Toxicity: Skin - Category 4
- Acute Toxicity: Inhalation - Category 4
- Skin Corrosion/Irritation - Hazard category 2 Irritant
- Serious Eye Damage/ Eye Irritation - Hazard category 2A Irritant
- Specific Target Organ Toxicity (Single Exposure) - Category 3
- Specific Target Organ Toxicity (Repeated Exposure) - Category 2
- Aspiration Hazard - Hazard category 1
- Aquatic Hazard (Acute) - Hazard category 2
- Long Term Hazards To The Aquatic Environments - Hazard category 2

2.2 GHS label elements, including precautionary statements

2.2.1. Chemical name : P-XYLENE

2.2.2. Product name or GHS product identifier :

2.2.3. Symbol and Hazard pictograms

2.2.4. Signal words : **Danger**

2.2.5. Hazard statement

- Flammable liquid and vapour
- May be harmful if swallowed
- Harmful in contact with skin
- Harmful if inhaled
- Causes skin irritation
- Causes serious eye irritation
- (respiratory tract irritation) May cause respiratory irritation or (Narcotic effects) May cause drowsiness or dizziness
- May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
- May be fatal if swallowed and enters airways
- Toxic to aquatic life
- Toxic to aquatic life with long lasting effects



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P-XYLENE

3 Composition / information on ingredients

3.1. Homogeneous substance Mixture substance

3.1.1. Chemical identity

3.1.2. Common-name P-XYLENE

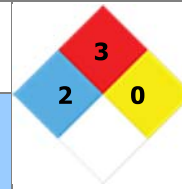
3.1.3. Synonym 1,4-Dimethyl-benzene, Benzene, 1,4-Dimethyl

3.1.4. CAS number and other unique identifiers : 106-42-3

3.1.5. Impurities and stabilizing additives



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P-XYLENE

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First-aid measures

4.1 First-aid

4.1.1 Inhalation

Move to fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician

4.1.2 Skin contact

If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

4.1.3 Eyes contact

Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

4.1.4 Ingestion

Keep respiratory tract clear. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

4.2 Most important symptoms/effects

4.2.1 Immediate effects

4.2.2 Delayed effects

4.3 Indication of immediate medical attention

4.4 Special treatment needed, if necessary

4.5 Other

**5****Fire fighting measures**

5.1 Unsuitable extinguishing media : none

5.2 Suitable extinguishing media : water spray ,Dry chemical. Carbon dioxide (CO2),Alcohol-resistant foam

5.3 Specific hazards arising from the chemical
Carbon oxides.

5.4 Special protective equipment and precautions for fire-fighters
need SCBA ONLY

5.5 Precautions for fire fighters

Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces

5.6 Other information

6**Accidental release measures**

6.1 Personal precautions

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.Beware of vapors accumulating to form explosive concentrations.

6.2 Protective equipment



6.3 Emergency procedures

6.3.1 Massive leak

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

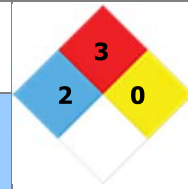
6.3.2 Slight leak

6.4 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities

6.5 Methods and materials for containment and cleaning up

No smoking. 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

Handling and storage

7.1 Precautions for safe handling

Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area.

7.2 Incompatibility

7.2.1 Safe storage condition

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

7.2.2 Incompatible chemicals storage prohibitions

7.3 Storage area GC4 3A

7.4 Incompatible chemicals condition

7.5 Hazard Class by UN :

7.6 Classification by law : Class 3

8

Exposure controls/personal protection

8.1 Occupational exposure limit values or biological limit values

Name	TLV-TWA	TLV-STEL	TLV-C	PEL	Thai	biological limit values
	100	150		100		

8.2 Appropriate engineering controls

8.3 Personal protective equipment



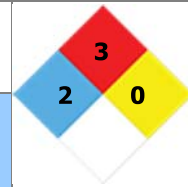
8.4 Personal hygiene

Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure.

8.5 Other protection



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P-XYLENE

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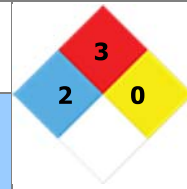
Physical and chemical properties

9.1 Appearance	Liquid Clear
9.2 Odour	
9.3 Odour threshold limit	0.62
9.4 PH-value	7 (N/A)
9.5 Melting point and Freezing point :	Melting point 13.3 °C Freezing point 13.2 °C
9.6 Initial boiling point/Boiling range :	Boiling point - °C Boiling range 137.5 °C - 139 °C
9.7 Flash point	27 °C (close cup)
9.8 Evaporation rate	mg/sec
9.9 Flammability (solid, gas)	Burning time- sec and/or Burning Rate- mm/sec
9.10 Upper/Lower flammability or explosive limits	1.1 %LEL and/or 7 %UEL
9.11 Vapour pressure	9 kPa at 20 °C
9.12 Vapour density	Respect to air 3.7 kpa
9.13 Relative density	0.86 g/cm ³ or kg/m ³ at °C
9.14 Solubility(ies)	Soluble in hydrocarbon solvents
9.15 Partition coefficient : n-octanol/water :	-
9.16 Auto-ignition temperature	528 °C
9.17 Decomposition temperature	- °C
9.18 Viscosity	-
9.19 Heat of Combustion	- °C
9.20 The ignition distance test	- cm
9.21 The enclosed space ignition test	- s/m ³
9.22 The foam test	Respect to air - cm Flame duration - sec
9.23 Burn rate test	

Detail	Chemical		Unit
	Non-metal powder	Metal powder	
Wetted zone stops the fire	-	-	min
Burning time	-	-	sec
Burning rate	-	-	mm/s



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Stability and reactivity

10.1 Reactivity :

10.2 Chemical Stability :

Stability Instability and emit gas N/A

10.3 Possibility of Hazardous reaction :

10.4 Conditions to avoid :

10.5 Incompatible materials :

chlorates, nitrates, peroxides

10.6 Hazardous decomposition products :

10.7 Corrosivity :

11

Toxicological information

11.1 Route of entry

Inhalation

Ingestion

Skin contact

Eyes contact

11.2 Symptoms related to the physical, chemical and toxicological characteristics

11.2.1 Symptom related with physical characteristic

11.2.2 Symptom related with chemical characteristic

Target organ to liver kidney,cbc

11.2.3 Symptom related with toxicology :

11.3 Contact delayed, immediate and chronic effects

-

11.4 Numerical measures of toxicity

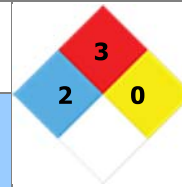
11.4.1 Acute oral toxicity 5000 mg/kg [Rat.]

11.4.2 Acute dermal toxicity 12400 mg/kg [Rabbit.]

11.4.3 Acute toxic of the vapour 4550 ppm 4 hour(s) [Rat].



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Ecological information

12.1 Ecotoxicity (aquatic and terrestrial, where available)

12.1.1 Immediate fish toxic : 18 mg/l/24hr.

12.1.2 Immediate crustaceans toxic :

12.1.3 Immediate algae toxic : 3.2 - 4.40 mg/l/72hr.

12.2. Persistence and degradability : This material is expected to be readily biodegradable.

12.3. Bio-accumulative potential : Does not significantly accumulate in organisms.

12.4. Mobility in soil :

12.5. Other adverse effects : BOD5: 44 %

13

Disposal considerations

13.1 Waste information : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemic

13.2 Remain materials :

13.3 Waste disposal : Send to a licensed waste management company

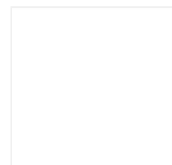
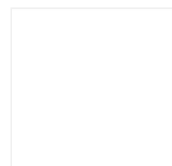
13.4 Package contaminated disposal : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the em

14

Transport information

- 14.1 UN Number 1307
14.2 UN Proper Shipping Name : XYLENES
14.3 Transport Class/Division : 3
14.4 Package group (if any) : III
14.5 Marine pollution : Yes No N/A
14.6 Special precautionary for user :
14.7 DGF(Transport in bulk) : UN1307, XYLENES, 3, III, (27 °C), RQ (P-XYLENE
14.8 Classification code :
14.9 Other details

Pictogram





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Regulatory information

15.1 Safety, health and environmental regulations
thai laws

16

Other information

16.1 Date of latest issue 05-03-2019

16.2 Description of point of Safety Data Sheet changing

16.3 Abbreviation explanation

NFPA Hazard Code	HMIS Hazard	Rating System
<p>Health Fire Hazard Reactivity Specific</p>	2 Health	0 = No hazard (No hazard)
	3 Flammability	1 = Slight hazard (Slight hazard)
	0 Reactivity	2 = Moderate hazard (Moderate hazard)
		3 = Serious hazard (Serious hazard)
		4 = Severe hazard (Severe hazard)

16.5 Information Safety Data Sheet files :

master file (Master file)

reference file (Reference file)

16.6 Local regulations :

thai laws

16.7 Reference

<http://www.sciencelab.com/msds.php?msdsId=9927324>

<http://www.chemtrack.org/MSDSSG/Trf/msdst/msdst106-42-3.html>

16.8 Other details

P-XYLENE

NFPA Rating and GHS Pictogram



Emergency call
66(0) 3897-2222

UN Number : **1307** CAS Number : **106-42-3**

Flash point : **27 °C** Auto-ignition **528 °C**

TWA-TLV:

Hazard statement

Flammable liquid and vapour, May be harmful if swallowed, Harmful in contact with skin, Harmful if inhaled, Causes skin irritation, Causes serious eye irritation, (respiratory tract irritation) May cause respiratory irritation or (Narcotic effects) May cause drowsiness or dizziness, May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of e

Health hazard



Fatal if swallowed, Toxic if swallowed, Harmful if swallowed, May be harmful if swallowed, Fatal in contact with skin, Toxic in contact with skin, Harmful in contact with skin, May be harmful in contact with skin, Fatal if inhaled, Toxic if inhaled, Harmful if inhaled, May be harmful if inhaled, Causes severe skin burns and eye damage, Causes skin irritation, Causes mild skin irritation, Causes serious eye damage, Causes serious eye irritation, Causes eye irritation, May cause allergy or astmat

Personal protection equipment

Foot protection must be worn where appropriate, Use hand protection in this area, Protective clothing must be worn, Respirators must be used where appropriate, Safety helmets must be worn where appropriate



First aids



Move to fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician, If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes., Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist., Keep respiratory tract clear. Never give anything by mouth to an unconscious person.

Fire extinguishing media



water spary ,Dry chemical. Carbon dioxide (CO2),.Alcohol-resistant foam, none

Store and transportation



Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes.Smoking, eating and drinking should be prohibited in the application area., Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards., , Wear a supplied-air NIOSH approved respirator unle

Leakage handling



Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.Beware of vapors accumulating to form explosive concentrations., Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations., , Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. I

For more information please contact : 66(0) 3897-2222

Code No. 10040020 Number of Revision 6

Warning :

DANGER

P-XYLENE

UN No : 1307

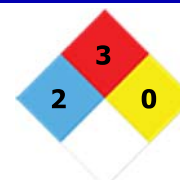
CAS No : 106-42-3



Signal words : Danger

Hazard statement

Flammable liquid and vapour, May be harmful if swallowed, Harmful in contact with skin, Harmful if inhaled, Causes skin irritation, Causes serious eye irritation, (respiratory tract irritation) May cause respiratory irritation or (Narcotic effects) May cause drowsiness or dizziness, May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of e



Precautionary Statement

- Keep away from heat, [sparks] [and flame] [- No Smoking]
- Keep container closed when not in use
- Keep container/package tightly closed in a cool [well-ventilated] place
- Use CO2, dry chemical, or foam
- Do not enter areas where used or stored until adequately ventilated
- Do not eat, drink or smoke during work
- During fumigation/spraying, wear suitable respiratory equipment (appropriate wording to be specified by the manufacturer)
- Avoid release to the environment Refer to special instructions/safety data sheet
- Avoid run off to waterways and sewers

First aids :

Move to fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician, If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes., Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist., Keep respiratory tract clear. Never give anything by mouth to an unconscious person.

Emergency number :

66(0) 3897-2222

Protective equipment:



Manufacturer / Supplier

Company: PTT Global Chemical Public Company Limited

Address: 4, I-2 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Mueang Rayong, Rayong 21150 Thailand.

Telephone number: 66(0) 3899-4000 ext. 5755, 5799