SAFETY DATA SHEET
(according to EC Regulation No 1907/2006)

PARAXYLENE

Version No: 02 Date: November 2016

1. IDENTIFICATION OF THE CHEMICAL/SUBSTANCE AND COMPANY/UNDERTAKING

PRODUCT INFORMATION

Product Name	Para Xylene
Use of the substance/Mixture	For producing basic organic chemicals
Manufacturer	The Kuwait Para Xylene Production Company, P.O 9717 Ahmadi-61008,Kuwait
Telephone Number	+965 23851000
Emergency Phone Number	+965 23254515 / 23254516 (24 hours a day)
Email address	picpxcontacts@equate.com

2. HAZARDS IDENTIFICATION

GHS Classification :

Flammable liquids, Category 3
Acute toxicity, Category 5, Oral
Acute toxicity, Category 4, Dermal
Acute toxicity, Category 4, Inhalation
Skin corrosion/irritation, Category 2
Serious eye damage/eye irritation, Category 2A
Aspiration hazard, Category 1
Specific target organ toxicity - exposure, Category 3
Acute hazards to the aquatic environment, Category 2

GHS Label Elements Symbol(s) :

Signal Words : Danger

GHS Hazard statements :

PHYSICAL HAZARDS:
H226: Flammable liquid and vapour.
HEALTH HAZARDS:
H303: May be harmful if swallowed.
H312: Harmful in contact with skin.
H332: Harmful if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H304: May be fatal if swallowed and enters airways.

NFPA RATINGS (SCALE 0-4):

Health	2
Flammability	3
Reactivity	0

SKIN CONTACT

Very hazardous in case of skin contact, skin inflammation is characterized by itching, scaling, reddening or occasionally blistering

INHALATION

Can be harmful if high concentrations are inhaled

EYE CONTACT

In case of eye contact it causes irritation. Inflammation of eye is characterized by redness, watering and itching.

OTHER HEALTH HAZARDS

The substance is toxic to blood, kidneys, nervous system and liver. Repeated or prolonged exposure to substance can produce organs damage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS#	%W/W	HAZARDS
p-Xylene	106-42-3	➢ 99.7	Hazardous
o-Xylene	95-47-6	< 0.1	Hazardous
m-Xylene	108-38-3	< 0.15	Hazardous
Ethyl Benzene	100-41-4	< 0.3	Hazardous

Occupational Exposure Limit

Main Component	Limits (ACGIH)		Ceiling/Peak
	TWA(PPM	STEL(PPM)	
p-Xylene	100	150	NA
m-Xylene	100	150	NA
0-Xylene	100	150	NA
Ethyl benzene	100	125	NA

4. FIRST AID MEASURES

SKIN CONTACT

After contact with skin, wash immediately with plenty of water. Use non-abrasive soap and gently wash contaminated skin. Cover the irritated skin with an emollient. If irritation persists call for medical attention. For serious skin contact, wash with a disinfectant soap and cover the area with an anti-bacterial cream. Seek Medial attention.

INHALATION

Remove the victim to rest in well ventilated area. Seek medical attention.

EYE CONTACT

Flush eyes with running water. Remove contact lenses, if worn. Continue flushing eyes with running water for 15 minutes, keeping eyelids open. Do not use an eye ointment. Seek medical attention

5. FIRE-FIGHTING MEASURES

OSHA FIRE CLASSIFICATION: Flammable liquid

FLAMMABLE PROPERTIES: Flashpoint: 25°C (Closed Cup)

Autoignition: 527°C

Combustion Products: Complex mixture of gases including carbon Monoxide and carbon dioxide

EXTINGUISHING MEDIA

Small fire use dry chemical powder, large fire use water spray or fog

SPECIAL FIRE FIGHTING PROCEDURES

Do not direct a solid stream of water or foam into burning liquid material; this may cause spattering and spread the fire.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Firefighters should wear full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots) and a positive pressure NIOSH approved self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Protective Procedures: Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released in to the working area, evacuate the are immediately. Monitor area with combustible gas indicator. Wear appropriate personal protective equipment when cleaning up spills.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Small spill: Absorb with an inert material and put the inert material in an appropriate waste disposal

Large spill: Flammable liquid, keep away from heat. Keep away from sources of ignition. If released in to work area, evacuate the area immediately. Absorb with dry earth, sand or other non-combustible materials. Prevent entry into sewers, basement or confined spaces. Be careful that the product is present at a concentration above TLV (Threshold Limit Value). Check TLV on MSDS and with local authorities. Spills may require reporting to local authorities.

7. HANDLING AND STORAGE

HANDLING

This product is for Industrial Use only

Precautions

Keep product in closed container away from heat. Ground all equipment containing material. Do not ingest. Do not breathe gas/vapors/fumes/spray. In case of insufficient ventilation wear respiratory equipment. If ingested seek medical help. Avoid contact with skin and eyes.

STORAGE

Flammable material should be stored in a separate safety storage cabinet or room. Keep away from heat and sources of ignition. Store in a cool and well ventilated place. Ground all equipment containing material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

Consider material hazards, applicable exposure limits, job activities and other substances in the work place when designing engineering controls and selecting personal protective equipment. If the controls are not adequate to prevent harmful exposure the equipment listed below is recommended.

PERSONAL PROTECTION

Respiratory Protection

Use vapor respirator. Make sure to use only an approved/certified respirator or equivalent.

Hand Protection / Protective Gloves

Wear gloves. Make sure to use only approved/certified gloves

Eye Protection

Use splash goggles. Make sure that eyewash stations and safety showers are proximal to the work station.

Skin Protection

Use gloves and lab coat to prevent skin contact. Use gloves, lab coat, boots and complete facial protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Liquid (aromatic liquid)
Boiling Point	138° C
Specific Gravity @ 20°C	0.86
Vapor Pressure	9.0 mmHg @ 20°C

Percent Volatile	100% volume
Odor Threshold	0.62 ppm Max
Solubility	Water: Insoluble in water Other solvents: Soluble in methanol, diethyl ether

10. STABILITY AND REACTIVITY

STABILITY: Stable at normal, ambient and anticipated storage and handling conditions of temperature and pressure

Conditions to Avoid: Prolonged temperature above 250°C, light

Materials to Avoid: Oxygen, strong oxidizing agents, strong acids, strong alkalis, peroxides, halogens, and any other chemicals; corrosive to copper and its alloys.

Polymerization: No

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: **The oral LD-50 in the rat is 4029 mg/kg. The acute oral toxicity is based on test result for para xylene**

Acute Dermal Toxicity: **The dermal LD50 in the rabit is 12.1 g/kg.**

Acute Inhalation Toxicity: **The inhalalation LC50 in the rat is 4740 ppm after 4 hr exposure.**

Eye Irritation: **This material is irritating to the eyes**

Skin Irritation: **This material is irritating to the skin**

Respiratory Tract Irritation: **This material is a mild irritant to the respiratory tract**

Sensitization: **Dermal - This material is a sensitizer in the human**

Chronic Effects on Humans: **In humans over exposure to xylene can cause headache, fatigue, dizziness, confusion, irritability, gastrointestinal disturbances and a feeling of increased body heat. Exposure to xylene vapor above recommended exposure limits can cause irritation of the eyes, nose and throat as well as tightening of the chest and staggering gait. Severe overexposure to xylene has been reported to cause irregular heartbeat, tremors, central nervous system depression and unconsciousness.**

Additional Toxicology Information:

This product contains meta and ortho xylene. The primary effects of exposure to xylene in animals and humans are on the central nervous system.

This product contains ethyl benzene: Based on studies in rats ethyl benzene is not expected to be mutagenic nor cause birth defects or other developmental effects.

12. ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY

Hazardous short term degradation products not likely. However long term degradation products may arise

AQUATIC TOXICITY/ECOTOXICITY

Not tested

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD(S)

Disposal must be in accordance with applicable federal, state, or local regulations. Residues and spilled material are hazardous waste due to ignitability.

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situation.
DOT Classification: Class 3 : Flammable Liquid
Identification: Xylene
UN No. :UN1307
PG (Packaging Group) : III
Consult appropriate Dangerous Goods Regulations for mode specific or quantity specific requirements.

15. REGULATORY INFORMATION

U.S. REGULATIONS:
TSCA INVENTORY STATUS: Yes

TSCA 12(b) EXPORT NOTIFICATION: Not listed.
CERCLA SECTION 103 (40CFR302.4): Yes
P-Xylene 100 lbs
SARA SECTION 302 (40CFR355.30): No
SARA SECTION 311/312 (40CFR370.40): Yes
SARA SECTION 313 (40CFR372.65): Yes
STYRENE
SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):
ACUTE: Yes
CHRONIC: Yes
FIRE: Yes
REACTIVE: No
SUDDEN RELEASE: No
OSHA Hazard Communication Standard: Flammable Liquid
STATE REGULATIONS:
California Proposition 65: No
EUROPEAN REGULATIONS: Compliance with EU Directive

EC RISK AND SAFETY PHRASES:

R 10	Flammable.
R 20	Harmful by inhalation.
R 38	Irritating to eyes and skin.
S 2	Keep out of reach of children.
S 23	Do not breathe gas, fumes, vapor, or spray.

16. OTHER INFORMATION

This MSDS has been compiled as guided by European Community Directive 91/155/EEC.

The product is intended for industrial use only. This MSDS and other product literature should be carefully reviewed before using the product. If necessary consult reference works or experts in fire prevention, ventilation and toxicology for proper understanding and utilization of the data in the MSDS. Enforce good housekeeping in your plant.

Specific toxicology tests have not been conducted on this product. Our toxicity evaluation is based on information from major components MSDS and professional experience.

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