



Reliance Industries Ltd.

Material Safety Data Sheet

Para Xylene

1. Chemical Identity

Chemical Name: (Xylenes) 1.4 - Dimethyl benzene **Chemical Classification** : Aromatics
Synonyms : Xylol **Trade Name** : ParaXylene
Formula : $C_6H_4(CH_3)_2$ **C.A.S NO.** 106-42-3 **U.N. No.** :1307

Shipping Name **Codes/Label:** Flammable Liquid: **Hazchem No.** N/A
Regulated Identification
Hazardous Waste: acid smoke and irritating fumes
ID No. : N/A
Hazardous Ingredients : N/A C.A.S No. Hazardous Ingredients: N/A C.A.S No.
1. None 3. None
2. None 4. None

2. Physical and Chemical Data

Boiling Range/Point :138.3°C **Physical State** :Liquid **Appearance:** Colourless
Melting/ Freezing Point: - 47.9°C **Vapour Pressure:**@ 35°C 10mm Hg
Odour: Sweet
Vapour Density :3.66 Solubility in water@30°C : Insoluble
Specific Gravity :0.8611 pH : N/A
Water = 1

3. Fire and Explosion Hazard Data

Flammability : Yes UEL :1.1% Flash Point :25°C Autoignition Temperature: 528°C
TGD Flammability: N/A UEL 7.0%
Explosion Sensitivity to Impact: None
Hazardous Combustion Products : Acid smoke & irritating fumes
Hazardous Polymerisation : None
Combustible Liquid Explosive Material: In the form of vapour
Corrosive Material: It reacts with oxidising materials.
Flammable Material It reacts with oxidisers
Pyrophoric Material N/A
Organic Peroxide N/A

4. Reactivity Data

Chemical Stability : Normally stable and do not react with water
Incompatibility with other Material : N/A
Reactivity : Normally Stable
Hazardous Reaction Products : It reacts with oxidising materials.



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5. Health Hazard Data

Routes of Entry	: Percutaneous (Skin) absorption and Inhalation		
Effects of Exposure / Symptoms	: Skin irritation, dizziness, narcosis , excitement ,drowsiness ,staggering gait, nausea , vomiting , and dermatitis. Possible carcinogen.		
Emergency Treatment:	Use copious amount of water to irrigate eyes. No antidote to be given Medical advice to be immediately sought.		
TLV (ACGIH)	100ppm	STEL	150ppm
Permissible Exposure	2110 mg/kg	Odour: N/A	
Limit ipr-mus LD ₅₀	Threshhold LD ₅₀		

6. Preventive Measures

NFPA Hazard : Health:2 Flammability 3 Reactivity: 0 Special Signal

Personal Protective Equipment : Wear full protective clothing and positive pressure self-contained breathing equipment apparatus.

Handling Storage Precautions : Store in a cool , dry , well ventilated location, inside storage should be in a standard flammable liquids storage warehouse, room or cabinet.

7. Emergency and First Aid Measure Fire Extinguishing

Media: Foam, dry chemicals, water spray or CO₂

Special Procedures Water may be ineffective, as flash Point is less than 37.8° C. Use water spray to keep fire exposed containers cool.

Fire Unusual Hazards: As above
First Aid Measure As above
Exposure Antidotes/ Dosages: As above

Steps to be taken: Eliminate all ignition sources. Stop or control the leak
If this can be done without undue risk. Use appropriate foam to blanket release and suppress vapours.

Spills Water disposal method: Absorb in non-combustible material for proper disposal.

8. Additional Information / References

Some inconclusive research has been carried out which indicate that this material is a suspected carcinogen. In view of this , it is being treated as a carcinogenic substance (as it is chemically very similar to benzene, which is proven carcinogen).

- 1) SAX- Dangerous properties of Industrial Material - (8TH Edition)
- 2) SAX Dangerous properties of industrial Material - (6TH Edition)
- 3) Fire protection Guide on Hazardous Materials. NFPA (1994 Edition)

NFPA - 49 and NFPA - 325

- 4) Fire and Hazardous Substances , volume 2, fire protection Association.



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ACGIH = American Conference of Governmental Industrial Hygienists

Ipr = Intraperitoneal route

Steel = Short term exposure limit

TLV = Threshold limit value

9. Manufacturer:

Reliance Industries Limited,
Maker Chamber IV,
222 - Nariman Point,
MUMBAI – 400 021 - INDIA
Tel. # 00-91-22 – 2842384 / 2826070

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