

# Safety Data Sheet p-Xylene

## **Section 1: Product and Company Identification**

#### Middlesex Gases & Technologies

292 Second Street P.O. Box 490249 Everett, MA 02149 (617) 387-5050 (800) 649-6704 Fax (617) 387-3537 http://www.middlesexgases.com/

Product Code: p-Xylene

# Section 2: Hazards Identification



#### **Hazard Classification:**

Acute Dermal Toxicity (Category 4) Flammable (Category 2) Gases Under Pressure

#### **Hazard Statements:**

Contains gas under pressure; may explode if heated Flammable gas Harmful in contact with skin

#### **Precautionary Statements**

#### Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves and protective clothing.

#### Response:

Eliminate all ignition sources if safe to do so.
Wash with plenty of water
Call a poison center or doctor if you feel unwell.
Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
Take off contaminated clothing and wash it before reuse.

#### Storage:

Protect from sunlight. Store in well-ventilated place.

#### Disposal:

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# Section 3: Composition/Information on Ingredients

**CAS** # 106-42-3

Chemical Substance	Chemical Family	Trade Names
P-XYLENE	hydrocarbons, aromatic	BENZENE, 1,4-DIMETHYL-; P-DIMETHYLBENZENE; 1,4-DIMETHYLBENZENE; P-METHYLTOLUENE; 4-METHYLTOLUENE; 1,4-XYLENE; P-XYLOL; RCRA U239; STCC 4909351; UN 1307; O-5082

# **Section 4: First Aid Measures**

Skin Contact	Eye Contact	Ingestion	Inhalation	Note to Physicians
Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.	Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.	For inhalation, consider oxygen. For ingestion, consider gastric lavage.

# **Section 5: Fire Fighting Measures**

Suitable Extinguishing Media	Products of Combustion	Protection of Firefighters
Regular dry chemical, carbon dioxide, water, regular foam Large fires: Use regular foam or flood with fine water spray.	Carbon monoxide, carbon dioxide and toxic and irritating fumes	<ul> <li>Any self-contained breathing apparatus with a full facepiece.</li> <li>Any self-contained breathing apparatus with a full facepiece.</li> </ul>

# Section 6: Accidental Release Measures

Personal Precautions	Environmental Precautions	Methods for Containment
Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.	Avoid heat, flames, sparks and other sources of ignition.	Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition. Dig holding area such as lagoon, pond or pit for containment.

Methods for Cleanup	Other Information
Small spills: Absorb with sand or other non-combustible material. Collect spilled	Notify Local Emergency Planning Committee and State
material in appropriate container for disposal. Large spills: Dike for later	Emergency Response Commission for release greater than or
disposal. Collect with absorbent into suitable container. Cover with absorbent	equal to RQ (U.S.SARA Section 304). If release occurs in the
sheets, spill-control pads or pillows. Neutralize. Collect with absorbent into	U.S. and is reportable under CERCLA Section 103, notify the
suitable container. Absorb with activated carbon. Remove trapped material with	National Response Center at (800)424-8802 (USA) or
suction hoses. Collect spilled material using mechanical equipment.	(202)426-2675 (USA).

## **Section 7: Handling and Storage**

Handling	Storage
Store and use with adequate ventilation. Firmly secure cylinders upright to keep them from falling or being knocked over. Screw valve protection cap firmly in place by hand. Store only where temperature will not exceed 125°F (52°C). Store full and empty cylinders separately. Use a first-in, first-out inventory system to prevent storing full cylinders for long periods.	Do not get liquid in eyes, on skin, or clothing. Protect cylinders from damage. Use a suitable hand truck to move cylinders; do not drag, roll, slide, or drop. Open valve slowly. Close cylinder valve after each use; keep closed even when empty. If valve is hard to open, discontinue use and contact your supplier.

## **Section 8: Exposure Controls/Personal Protection**

#### **Exposure Guidelines**

Physical State

P-XYLENE: XYLENE: 100 ppm (435 mg/m3) OSHA TWA 150 ppm (651 mg/m3) OSHA STEL (vacated by 58 FR 35338, June 30, 1993) 100 ppm ACGIH TWA 150 pppm ACGIH STEL 100 ppm (435 mg/m3) NIOSH recommended TWA 10 hour(s) 150 ppm (655 mg/m3) NIOSH recommended STEL

#### **Engineering Controls**

Handle only in fully enclosed systems.

Eye Protection	Skin Protection	Respiratory Protection
Wear splash resistant safety goggles with a face shield. Provide an	Wear appropriate chemical	Any self-contained breathing
emergency eye wash fountain and quick drench shower in the immediate work area.	resistant clothing.	apparatus with a full facepiece.

#### **General Hygiene considerations**

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin

Appearance

Wash thoroughly after handling and before eating or drinking

## **Section 9: Physical and Chemical Properties**

Color

Elach Doint	Elammahility	Dartition	Coefficient	Autojanition	Tomporaturo	Upper Eyple	eiva Limit	c Lower Explosive Limits
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Liquid	Clear	Colorless	N/A		Liquid	Sweet odor	N/A	

Physical Form

Taste

Flash Point	Fiammability	Partition Coefficient	Autoignition Temperature	Opper Explosive Limits	Lower Explosive Limits
81 F (27 C) (CC)	IC	Not available	982 F (528 C)	0.07	0.011
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Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	рН	Odor Threshold	Evaporation Rate	Viscosity
280 F (138 C)	55 F (13 C)	8.6 mmHg @ 25 C	3.7 (Air=1)	0.8611	Insoluble	Not available	0.47 ppm	0.7 (butyl acetate=1)	Not available

Change in Appearance

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
106.17	C8-H10	Not available	Not available	100%	Not available	Soluble: Alcohol, ether, benzene, acetone, organic solvents

## Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal temperatures and	Stable at normal temperatures and	Acids, combustible materials, oxidizing materials, air,
pressure.	pressure.	nitric acid

Hazardous Decomposition Products	Possibility of Hazardous Reactions
Oxides of carbon	Will not polymerize.

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## **Section 11: Toxicology Information**

#### **Acute Effects**

Oral LD50	Dermal LD50	Inhalation
3910 mg/kg oral-rat LD50	Not available	Irritation, low body temperature, ringing in the ears, nausea, vomiting, stomach pain, headache, drowsiness, symptoms of drunkenness, visual disturbances, lung congestion, kidney damage, liver damage, coma

Eye Irritation	Skin Irritation	Sensitization
Irritation (possibly	Severe irritation,	Respiratory tract irritation, skin irritation, eye irritation, central nervous system depression
severe), tearing	blisters	POSSIBLE TERATOGEN/EMBRYOTOXIN

#### **Chronic Effects**

Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Not available	Not available	Available.	No data

# **Section 12: Ecological Information**

#### **Fate and Transport**

Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Fish toxicity: 8800 ug/L 96 hour(s) LC50 (Mortality) Guppy (Poecilia reticulata) Invertibrate toxicity: 3600 ug/L 24 hour(s) EC50 (Immobilization) Water flea (Daphnia magna) Algal toxicity: 4400 ug/L 8 hour(s) EC50 (Growth) Green algae (Selenastrum capricornutum) Phyto toxicity: Not available Other toxicity: Not available	Not available	Not available	Not available

## **Section 13: Disposal Considerations**

Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): U239. Dispose in accordance with all applicable regulations.

## **Section 14: Transportation Information**

U.S. DOT 49 CFR 172.101

Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Xylenes	UN1307	3	П	3	N/A	N/A	N/A

#### **Canadian Transportation of Dangerous Goods**

Shipping Name	UN Number	Class	Packing Group / Risk Group
Xylenes	UN1307	3	II

# Section 15: Regulatory Information

#### **U.S. Regulations**

CERCLA Sections	SARA 355.30	SARA 355.40
100 LBS RQ	Not regulated.	Not regulated.

#### **SARA 370.21**

Acute	Chronic	Fire	Reactive	Sudden Release
Yes	No	Yes	No	No

#### **SARA 372.65**

P-Xylene

**OSHA Process Safety** 

Not regulated.

**State Regulations** 

CA Proposition 65
Not regulated.

**Canadian Regulations** 

WHMIS Classification
BD2

**National Inventory Status** 

US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Listed on inventory.	P-XYLENE CAS NUMBER: 106-42-3 SECTION 4	Not determined.

# **Section 16: Other Information**

NFPA Rating
HEALTH=2 FIRE=3 REACTIVITY=0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard