Safety Data Sheet
o-Xylene

Section 1: Product and Company Identification

Middlesex Gases & Technologies
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Product Code: o-Xylene

Section 2: Hazards Identification

Warning

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:

Dispose of contents and/or container in accordance with applicable regulations.

Section 3: Composition/Information on Ingredients

CAS #
95-47-6

Chemical Substance	Chemical Family	Trade Names
O-XYLENE	hydrocarbons, aromatic	BENZENE, 1,2-DIMETHYL-; O-DIMETHYLBENZENE; 1,2-DIMETHYLBENZENE; O-METHYLTOLUENE; ORTHO-XYLENE; 1,2-XYLENE; O-XYLOL; RCRA U239; STCC 4909349; UN 1307; O-5081

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.	If a large amount is swallowed, get medical attention. Do not induce vomiting.	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.	None

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	▪ Any self-contained breathing apparatus with a full facepiece. ▪ Any self-contained breathing apparatus with a full facepiece.

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. Trap spilled material at bottom in deep water pockets, excavated holding areas or within sand bag barriers.

Methods for Cleanup	Other Information
Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Collect with absorbent into suitable container. Cover with absorbent sheets, spill-control pads or pillows. Neutralize. Absorb with activated carbon. Remove trapped material with suction hoses. Collect spilled material using mechanical equipment.	Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (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
O-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 ppm 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 emergency eye wash fountain and quick drench shower in the immediate work area.	Wear appropriate chemical resistant clothing.	Any self-contained breathing apparatus with a full facepiece.

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor	Taste
Liquid	Clear	Colorless	N/A	Liquid	Sweet odor	N/A

Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits
63 F (17 C)	IB	Not available	865 F (463 C)	0.067	0.009

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity
291 F (144 C)	-13 F (-25 C)	5.2 mmHg @ 25 C	3.7 (Air=1)	0.8802	0.0175% @ 20 C	Not available	<1 ppm	0.7 (butyl acetate=1)	

Molecular Weight	Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
106.17	C8-H10	Not available	Not available	Not available	1	Soluble: Alcohol, ether, benzene, acetone, organic solvents

Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal temperatures and pressure.	Stable at normal temperatures and pressure.	Oxidizing materials, nitric acid

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

Section 11: Toxicology Information

Acute Effects

Oral LD50	Dermal LD50	Inhalation
3567 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), tearing	Severe irritation, blisters	Respiratory tract irritation, skin irritation, eye irritation, central nervous system depression

Chronic Effects

Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
ACGIH: A4 - Not Classifiable as a Human Carcinogen IARC: IARC Group 3 - not classifiable (listed as Xylenes (o-, m-, p- isomers)).	Not available	Available.	No data

Section 12: Ecological Information

Fate and Transport

Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Fish toxicity: Fish: Rainbow trout: LC50 = 13.5 mg/L; 96 Hr;16400 ug/L 96 hour(s) LC50 (Mortality) Fathead minnow (Pimephales promelas) Invertibrate toxicity: 200 mg/L 24 hour(s) EC100 (Abundance) Water flea (Daphnia magna) Algal toxicity: 4200 ug/L 8 hour(s) EC50 (Growth) Green algae (Selenastrum capricornutum) Phyto toxicity: Not available Other toxicity: Not available	Not available	Bio concentration potential is low.	Volatizes and leaches into groundwater.

Section 13: Disposal Considerations

Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): U239.

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	II	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

1000 LBS RQ	Not regulated.	Not regulated.

SARA 370.21

Acute	Chronic	Fire	Reactive	Sudden Release
Yes	No	Yes	No	No

SARA 372.65

O-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.	Not listed.	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