

1. Product and Company Identification

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Product Name	:	RXSOL-19-1209-210
Product Type	:	P-XYLENE
Catalog Codes		SLX1120
CAS#		106-42-3
RTECS		ZE2625000
TSCA		TSCA 8(b) inventory: p-Xylene
CI#		Not applicable.
Synonym		p-Methyltoluene
Chemical Name		1,4-Dimethylbenzene
Chemical Formula		C ₆ H ₄ (CH ₃) ₂

Company Details:

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2. Composition / Information on ingredients

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Chemical Name	CAS #	% BY WEIGHT
{p-}Xylene	106-42-3	100

Toxicological Data on Ingredients: p-Xylene: ORAL (LD50): Acute: 5000 mg/kg [Rat.], DERMAL (LD50): Acute: 12400 mg/kg [Rabbit.], VAPOR (LC50): Acute: 4550 ppm 4 hour(s) [Rat].

3. Hazards Identification

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Potential Acute Health Effects

Very hazardous in case of skin contact (irritant), of eye contact (irritant), in case of skin contact (permeator), of ingestion, of inhalation (irritant), characterized by redness, watering, and itching. Skin inflammation, itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects

Hazardous in case of skin contact (irritant), of eye contact (irritant), Slightly hazardous in case of skin contact (permeator), of ingestion (irritant).

CARCINOGENIC EFFECTS

Not available.

MUTAGENIC EFFECTS

Not available.

TERATOGENIC EFFECTS

Not available.

DEVELOPMENTAL TOXICITY

Not available.

The substance is toxic to blood, kidneys, the nervous system, liver.

Repeated or prolonged exposure to the substance can produce target organs damage.

4. First Aid Measures

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Eye Contact	Check for and remove any contact lenses. Do not use an eye ointment or cream. Seek immediate medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Wash the contaminated skin with running water and non-abrasive soap. Pay attention to the clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Remove contaminated clothing before reusing.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with a sterile dressing. Seek immediate medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Serious Inhalation	Not available.
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain if there is any damage, a possible indication that the toxic material was ingested. If there is, however, is not conclusive. Loosen tight clothing such as a collar, tie, cuffs, etc. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Serious Ingestion	Not available.

5. Fire-fighting Measures

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Flammability of the Product	Flammable.
Auto-Ignition Temperature	527°C (980.6°F)
Flash Points	CLOSED CUP: 25°C (77°F). OPEN CUP: 28.9°C (84°F) (Cleveland).
Flammable Limits	LOWER: 1.1% UPPER: 7%
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames and sparks, of heat.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Flammable liquid, insoluble in water.
SMALL FIRE	Use DRY chemical powder.
LARGE FIRE	Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Special Remarks on Fire Hazards	Explosive in the form of vapor when exposed to heat or flame. Vapor may be ignited by static discharge. Keep a considerable distance to source of ignition and flash back. When heated to decomposition it emits acrid smoke and irritating fumes.
Special Remarks on Explosion Hazards	Not available.

6. Accidental Release Measures

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Small Spill	Absorb with an inert material and put the spilled material in an appropriate container for disposal.
Large Spill	Toxic flammable liquid, insoluble or very slightly soluble in water. Keep away from heat. Keep away from sources of ignition. Stop leak if possible. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate spilled material.

ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration above the TLV. Check TLV on the MSDS and with local authorities

7. Handling and Storage

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Precautions

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. If ingested, seek medical attention immediately and show the container or the label. Avoid contact with skin and eyes Keep away from incompatibles such as oxidizing agents.

Storage

Flammable materials should be stored in a separate safety storage cabinet. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).

8. Exposure controls and personal protection

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Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/ce-approved respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits

TWA: 100 STEL: 150 (ppm) from ACGIH (TLV)
TWA: 434 STEL: 651 (mg/m3) from ACGIH Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

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Physical state and appearance	- Liquid. (Liquid.)
Odor	- Not available.
Taste	- Not available.
Molecular Weight	- 106.17 g/mole
Color	- Colorless.
pH (1% soln/water)	- Not applicable.
Boiling Point	- 138°C (280.4°F)
Melting Point	- 12°C (53.6°F)
Critical Temperature	- Not available.
Specific Gravity	- 0.86 (Water = 1)
Vapor Pressure	- 9 mm of Hg (@ 20°C)
Vapor Density	- 3.7 (Air = 1)
Volatility	- Not available.

Odor Threshold	- 0.62 ppm
Water/Oil Dist. Coeff.	- Not available.
Ionicity (in Water)	- Not available.
Dispersion Properties	- See solubility in water, methanol, diethyl ether.
Solubility	- Easily soluble in methanol, diethyl ether. - Insoluble in cold water, hot water.

10. Stability and reactivity

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Stability	- The product is stable.
Instability Temperature	- Not available.
Conditions of Instability	- Not available.
Incompatibility with various substances	- Reactive with oxidizing agents.
Corrosivity	- Non-corrosive in presence of glass.
Special Remarks on Reactivity	- Not available.
Special Remarks on Corrosivity	- Not available.
Polymerization	- No.

11. Toxicological information

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Routes of Entry	- Eye contact.
Toxicity to Animals:	
WARNING	- THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF 4-HOUR EXPOSURE.
Acute oral toxicity (LD50)	- 5000 mg/kg [Rat].
Acute dermal toxicity (LD50)	- 12400 mg/kg [Rabbit].
Acute toxicity of the vapor (LC50)	- 4550 ppm 4 hour(s) [Rat].
Chronic Effects on Humans	- The substance is toxic to blood, kidneys, the nervous system, liver.
Other Toxic Effects on Humans	- Very hazardous in case of skin contact (irritant). Slightly hazardous in case of skin contact (permeator), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	- Not available.
Special Remarks on Chronic Effects on Humans	- 0347 Animal: embryotoxic, foetotoxic, passes through the placental barrier. - 0900 Detected in maternal milk in human.
Special Remarks on other Toxic Effects on Humans	- Narcotic effect; may cause nervous system disturbances. - Material is irritating to mucous membranes and upper respiratory tract

12. Ecological information

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Ecotoxicity	- Not available.
BOD5 and COD	- Not available.
Products of Biodegradation	- Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	- The products of degradation are more toxic.
Special Remarks on the Products of Biodegradation	- Not available.

13. Disposal considerations

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Waste Disposal:

14. Transport information

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DOT Classification	Class 3: Flammable liquid.
Identification	Xylene : UN1307 PG: III
Special Provisions for Transport	Not available.

15. Regulatory information

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Federal and State Regulations:

Pennsylvania RTK: p-Xylene

Florida: p-Xylene

Massachusetts RTK: p-Xylene

New Jersey: p-Xylene

TSCA 8(b) inventory: p-Xylene

SARA 313 toxic chemical notification and release reporting: p-Xylene

CERCLA: Hazardous substances.: p-Xylene

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):

CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC):

R10- Flammable.

R38- Irritating to skin.

R41- Risk of serious damage to eyes.

R48/20- Harmful: danger of serious

damage to health by prolonged

exposure through inhalation.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves.

Lab coat.

Vapor respirator. Be sure to use an

approved/certified respirator or

equivalent. Wear appropriate respirator

when ventilation is inadequate

16. Other information

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Other Special Considerations	Not available.
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