Material Safety Data Sheet

p Xylene Tech Grade 25 Ltr (RXSOL-20-2102-025)

1. Product and Company Identifaction

Product Name	:	**RXSOL-20-2102-210**
Product Type	:	**P-XYLENE (TECHNICAL GRADE)-II**

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	**C6H4(CH3)2**

Company Details:

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2. Composition / informationon ingredients

Chemica 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

Potential Acute Health Effects	Very hazardous in case of skin contact (irritant), of eye contact (irritant). Slightly hazardous in case of skin contact (permeator), of ingestion, of inhalation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by 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, of inhalation.
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

Eye Contact	Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. 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 whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Serious Ingestion	Not available.

5. Fire-fighting Measures

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 travel 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

Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste 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 without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities

7. Handling and Storage

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 advice 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 or room. 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

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/certified 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 ACGIHConsult local authorities for acceptable exposure limits.

9. Physical and chemical properties

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

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

Routes of Entry	- Eye contact.
Toxicity to Animals:	
WARNING	- THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 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. - Narcotic effect; may cause nervous system disturbances.
Special Remarks on other Toxic Effects on Humans	- Material is irritating to mucous membranes and upper respiratory tract

12. Ecological information

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

Waste Disposal:

14. Transport information

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

15. Regulatory information

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

Other Special Considerations	Not available.
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