



SAFETY DATA SHEET

XYLENE

1.IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: XYLENE

Recommended use: Chemical for industrial

Manufacturer/Supplier: **MODERN CHEMICAL CO.,LTD.**
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2. HAZARDS IDENTIFICATION

Label elements

Pictogram



Signal word

Warning

Hazard statement(s):

- 1.) Flammable liquid and vapour.
- 2.) Harmful if inhaled.
- 3.) Harmful in contact with skin.
- 4.) Causes skin irritation.

Precautionary statement(s):

- 1.) Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- 2.) Keep container tightly closed.
- 3.) Ground/bond container and receiving equipment.
- 4.) Use explosion-proof electrical/ventilating/lighting/equipment.



- 5.) Use non-sparking tools.
- 6.) Take precautionary measures against static discharge.
- 7.) Avoid breathing dust/fume/gas/mist/vapours/spray.
- 8.) Wash hands thoroughly after handling.
- 9.) Use only outdoors or in a well-ventilated area.
- 10.) Wear protective gloves/protective clothing/eye protection/face protection.
- 11.) Call a POISON CENTER or doctor/physician if you feel unwell.
- 12.) IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 13.) IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- 14.) Store in a well-ventilated place. Keep cool.
- 15.) Dispose of contents/container in accordance with local regulation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: Dimethylbenzene, Methyl toluene

Ingredients	% (w/w)	CAS NO.
XYLENE	100	1330-20-7

4. FIRST AID MEASURES

- General advice:** No data available.
- Inhalation:** If fumes or combustion products are inhaled remove from contaminated area. If the patient is not breathing spontaneously, administer rescue breathing.
- Skin contact:** Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
- Eye contact:** Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Ingestion:** **Do not induce vomiting.** Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Seek medical advice.



5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use water spray or fog, foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media:

No data available.

Specific hazards arising from Chemicals:

Carbon monoxide, carbon dioxide, other pyrolysis products typical of burning organic material.

Special protective equipment for fire-fighters:

Breathing apparatus. Chemical splash suit. Protective gloves.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid breathing vapours and contact with skin and eyes.

Environmental precautions: No data available.

Methods and Material for Containment and Clean Up:

Small Spills: Contain and absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. Should not be released into the environment.

7. HANDLING AND STORAGE

Precautions for Safe Handling & Product Transfer:

Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. DO NOT enter confined spaces until atmosphere has been checked.

Avoid smoking, naked lights or ignition sources. Avoid generation of static electricity. DO NOT use plastic buckets.

Prevent concentration in hollows and sumps.

**Conditions for Safe Storage & Unsuitable Materials:**

Store in original containers in approved flammable liquid storage area. Store away from incompatible materials in a cool, dry, well-ventilated area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. Protect containers against physical damage and check regularly for leaks. No smoking, naked lights, heat or ignition sources. Storage tanks should be above ground and diked to hold entire contents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: STEL 150 ppm, TWA 100 ppm

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

Individual Protection Measures

Respiratory protection: Type A Filter of sufficient capacity. Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.

Hand protection: Wear chemical protective gloves, eg.PVC, Wear safety footwear or safety gumboots, eg.Rubber.

Eye protection: Safety glasses with side shields. Chemical goggles.

Skin and body protections: PVC protective suit may be required if exposure severe. Chemical splash suit

Hygiene measures: No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form, Color and Odor : liquid, Colorless	Evaporation rate : N/A
Melting Point : -48 - 13°C	Specific gravity : 0.865 - 0.875 g/cm ³ at 15.6 °C
pH : Not applicable	Solubility in water : Immiscible
Boiling point : 138 - 143 °C	Viscosity : Not applicable
Vapour pressure : 0.5 kPa at 15 °C	Vapour density (air=1) : 3.66 at 15 °C
Lower explosive limits : 1.1 %Vol	Upper explosive limits : 7.7 %Vol
Auto-ignition temperature : 495 - 516 °C	Flash point: 27 °C
Odour threshold: N/A	Flammability (solid, gas): N/A
Decomposition temperature: Not applicable	Solubility in other solvents: N/A
n-octanol/water partition coefficient (log P_{ow}): N/A	



10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended storage conditions.
Reactions:	No data available.
Possibility of Hazardous Reactions:	Reacts violently with strong oxidizing agents.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon monoxide, Carbon dioxides, other pyrolysis products typical of burning organic material.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD50 (Oral, rat): 4300 mg/kg LD50 (Dermal, rabbit): 1700 mg/kg LC50 (Inhalation, rat): 5000 ppm - 4h LDLo (Oral, human): 50 mg/kg
Sensitization:	After inhalation of vapors: The product can cause respiratory irritation and irritation can cause further lung damage. If exposure to highly concentrated vapour atmosphere is prolonged this may lead to narcosis, unconsciousness. After skin contact: May cause moderate inflammation. After eyes contact: Can cause severe eye irritation depending on concentration. After swallowing: May cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result.
Chronic toxicity:	International Agency for Research on Cancer (IARC): Group 3.
Further toxicological information:	No data available.

12. ECOLOGICAL INFORMATION

Toxicity	
Toxicity to fish:	LC50 - Onchorhynchus mykiss: 13.5mg/l -96h
Toxicity to daphnia and other aquatic invertebrates:	EC50 - Palaemonetes pugio: 1.4 mg/l -24h
Toxicity to algae:	No data available.
Toxicity to bacteria:	No data available.



Biodegradability Remarks:	This product is biodegraded in groundwater samples under aerobic conditions and may be degraded under anaerobic denitrifying conditions.
Bioaccumulative Potential:	Product is not expected to significantly bioaccumulate in aquatic organisms.
Mobility:	The product is expected to leach with moderate soil mobility.
Affected in any other way:	No data available.

13. DISPOSAL CONSIDERATIONS

Material Disposal: This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.

Container Disposal: No data available.

14. TRANSPORT INFORMATION

ADR/ADNR

UN-NO: 1307 Class: 3 Packing group: III

Proper shipping group: XYLENE

IMGD

UN-NO: 1307 Class: 3 Packing group: III

EMS: F-E S-D Marine pollutant : No

Proper shipping group: XYLENE

IATA

UN-NO: 1307 Class: 3 Packing group: III

Proper shipping group: XYLENE

15. REGULATORY INFORMATION

US Toxic Substances Control Act

All components of this product are on the TSCA Inventory.



NFPA - USA

Health – 2, Flammability – 3, Reactivity – 0

HMIS – USA

Health – 2, Flammability – 3, Reactivity – 0

European Inventory of Existing Commercial Chemical Substances (EINECS)

The components of this product are on the EINECS inventory.

EU Directives 67/548/EEC

Classification Xn

Symbols



R-Phrases

R10: Flammable

R20/21: Harmful by inhalation and in contact with skin.

R38: Irritating to skin.

S-Phrases

S2: Keep out of the reach of children.

S25: Avoid contact with eyes.

Canada – WHMIS

This product has a WHMIS classification of B2, D2A, D2B.

16. Other Information

Modern Chemical Co.,Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensive or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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