

Safety Data Sheet (SDS) 3/10/2025: File reviewed, more current MSDS/SDS not available. CAS

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Xylenes **Signal Word**
WARNING

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
Chemtrec Emergency Phone Number: (800) 424-10490

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 3). Flammable liquid and vapor (H226). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).



Hazard class: Acute toxicity, oral (Category 5). May be harmful if swallowed (H303).



Hazard class: Acute toxicity, dermal (Category 4). Harmful in contact with skin (H312).

Hazard class: Skin irritation (Category 2). Causes skin irritation (H315).

Hazard class: Acute toxicity, inhalation (Category 4). Harmful if inhaled (H332).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Xylenes	1330-20-7	C ₆ H ₄ (CH ₃) ₂	106.17	
Synonyms: Dimethylbenzenes				

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

If inhaled: Call a POISON CENTER or physician if you feel unwell (P304+P312).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin or hair: Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES

Class IC flammable liquid.

NFPA Code

Flash point: 25 °C Flammable limits: Lower: 0.9% Upper: 7% Autoignition Temperature: 464 °C

H-2

In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).

F-3

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain spill with sand or other inert absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #3. Store with hydrocarbons, oils, esters and aldehydes. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor™ can. Keep container tightly closed (P233). Keep cool (P235). Use only in a hood or in a well-ventilated area. Use explosion-proof electrical and ventilating equipment (P241).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or in a well-ventilated area.

Exposure guidelines: PEL/TLV 100 ppm (OSHA/ACGIH); STEL 150 ppm (ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear liquid. Airplane glue odor.	Boiling point: 137-144 °C
Soluble: Alcohol and ether. Insoluble in water.	Specific gravity: 0.86
Mixture of ortho, meta and para isomers.	Vapor density: 3.7

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with oxidizing agents. Avoid contact with heat, open flame, or any sources of ignition.

Shelf life: Good, if kept tightly closed.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant, lung irritation, chest pain and edema which may be fatal, GI disturbances.	ORL-RAT LD ₅₀ : 4300 mg/kg
Chronic effects: CNS depression, dermatitis, reproductive hazard.	IHL-RAT LC ₅₀ : 5000 ppm/4H
Target organs: CNS, eyes, GI tract, blood, liver, kidneys, skin.	SKN-RBT LD ₅₀ : N.A.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #18b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Xylenes; Hazard class: 3, Flammable liquid; UN number: UN1307

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (215-535-7), RCRA code U239.

SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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