Safety Data Sheet

Xylene

Section 1. Identification

Product Identifier	Xylene
Synonyms	MSD_SDS0251; MCHEM120 MCHEM120
Manufacturer Stock Numbers	
Recommended use	For professional use only.
Uses advised against	N/A
Manufacturer Contact Address	Medline 3 Lakes Drive Northfield, IL, 60093 US

Phone	Emergency Phone	Fax
(800) 633-5463	(800) 424-9300 CHEMTREC	(847) 643-4436

Website

www.Medline.com

Section 2. Hazards Identification

Classification	ACUTE TOXICITY - DERMAL - Category 4 ACUTE TOXICITY - INHALATION - Category 4 Aquatic Acute - Category 1 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) - Category 2
Signal Word	Danger

Pictogram

Hazard Statements

Causes skin irritation
Flammable liquid and vapor
Harmful if inhaled
Harmful in contact with skin
May be fatal if swallowed and enters airways
May cause damage to organs through prolonged or repeated exposure.
Suspected of causing cancer.
Very toxic to aquatic life

Precautionary Statements

Response

Call a poison center or doctor if you feel unwell.
Collect spillage
Do NOT induce vomiting.
Get medical advice/attention if you feel unwell.
If exposed or concerned: Get medical advice/attention.
If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs: Get medical advice/attention.
If swallowed: Immediately call a poison center or doctor.
In case of fire: Use appropriate media (see section 5) to extinguish.
Specific treatment (see Section 4 on this SDS).
Take off contaminated clothing and wash it before reuse.

Prevention

Avoid release to the environment
Do not breathe mist, spray, vapors, gas.
Do not handle until all safety precautions have been read and understood.
Ground/bond container and receiving equipment.
Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. - No smoking.
Keep container tightly closed.
Obtain special instructions before use.
Take precautionary measures against static discharge.
Use explosion-proof electrical, ventilating, and lighting equipment.
Use only non-sparking tools.
Use only outdoors or in a well-ventilated area.
Wash hands, forearms, and exposed areas thoroughly after handling.
Wear protective gloves, protective clothing, and eye protection.

Storage

Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ingredients of unknown toxicity

0%

Hazards not Otherwise Classified	
Other Hazards:	Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.
Unknown Acute Toxicity (GHS-US):	Not available

Section 3. Ingredients

CAS	Ingredient Name	Weight %
1330-20-7	Xylenes (o-, m-, p- isomers)	90% - 100%
100-41-4	Ethylbenzene	<20 %

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Description of First Aid Measures:	General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention. Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. Get immediate medical advice/attention. Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.
Most Important Symptoms and Effects Both Acute and Delayed:	General: Causes skin irritation. Harmful in contact with skin. Harmful if inhaled. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Inhalation: Harmful if inhaled. Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness. Skin Contact: Causes skin irritation. Redness, pain, swelling, itching, burning, dryness, and dermatitis. This material is harmful through skin contact, and can cause adverse health effects or death in significant amounts. This material may be absorbed through the skin and eyes. Eye Contact: May cause slight irritation to eyes. Ingestion: Ingestion is likely to be harmful or have adverse effects. Aspiration into the lungs can occur during ingestion or vomiting and may cause lung

	injury. Chronic Symptoms: Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
Indication of Any Immediate Medical Attention and Special Treatment Needed:	If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Water spray, dry chemical, foam, carbon dioxide.
Unsuitable Extinguishing Media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Special Hazards Arising From the Substance or Mixture:	Fire Hazard: Flammable liquid and vapor. Explosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Product is not explosive. Reactivity: Reacts with strong oxidants causing fire and explosion hazard.
Advice for Firefighters:	Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Firefighting Instructions: Use water spray or fog for cooling exposed containers. Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Hazardous Combustion Products: Carbon oxides (CO, CO2). Other Information: Do not allow run-off from fire fighting to enter drains or water courses.
Reference to other sections:	Refer to section 9 for flammability properties.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:	General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray. Avoid all contact with skin, eyes, or clothing.
For non-emergency personnel:	Protective equipment: Use appropriate personal protection equipment (PPE). Emergency procedures: Evacuate unnecessary personnel.
For Emergency Personnel:	Protective Equipment: Use appropriate personal protection equipment (PPE). Equip cleanup crew with proper protection. Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions:	Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.
Methods and Material for Containment and Cleaning Up:	For Containment: Absorb and/or contain spill with inert material, then place in suitable container. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area. Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.
Reference to Other Sections:	See heading 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

Section 7. Handling and Storage

Precautions for Safe Handling:	Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety procedures.
Conditions for Safe Storage, Including Any Incompatibilities:	Technical Measures: Comply with applicable regulations. Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store locked up. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Incompatible Materials: Strong acids, strong bases, strong oxidizers.
Specific End Use(s):	For professional use only.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Xylenes (o-, m-, p- isomers)	0	N/A	N/A
Ethylbenzene	N/A	N/A	N/A

Personal Protective Equipment	Goggles, Gloves, Apron, Face Shield
Control Parameters:	For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Appropriate Engineering Controls:	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide sufficient ventilation to keep vapors below permissible exposure limit. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released.
Personal Protective Equipment:	Safety glasses. Face shield. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection. Protective goggles.
Materials for Protective Clothing:	Chemically resistant materials and fabrics.
Hand Protection:	Wear chemically resistant protective gloves.
Eye protection:	Chemical safety goggles.
Skin and body protection:	Wear suitable protective clothing.
Respiratory protection:	Use NIOSH-approved full facepiece negative pressure respirators equipped with approved cartridges or canisters within the use limitations of these devices. (Present restrictions on cartridges and canisters do not permit them to be used for a full workshift.) In all other situations, use positive pressure respirators such as the positive-pressure air purifying respirator or the self-contained breathing apparatus (SCBA). If you use a negative pressure respirator, your employer must provide you with fit testing of the respirator at least once a year.
Other information:	When using, do not eat, drink or smoke.

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Clear, colorless liquid
Odor	N/A
Odor Threshold	N/A
Solubility	Soluble
Partition coefficient Water/n-octanol	N/A
VOC%	N/A
Viscosity	N/A
Specific Gravity	0.865
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	25 °C
FP Method	N/A
pH	N/A
Melting Point	N/A
Boiling Point	137 - 140 °C
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	N/A
Flammability	N/A
Decomposition Temperature	N/A
Auto-ignition Temperature	N/A

Vapor Pressure	N/A
Vapor Density	N/A

Explosion Data – Sensitivity to Mechanical Impact: Not expected to present an explosion hazard due to mechanical impact.

Explosion Data – Sensitivity to Static Discharge: Not expected to present an explosion hazard due to static discharge.

Section 10. Stability and Reactivity

Reactivity:	Reacts with strong oxidants causing fire and explosion hazard.
Chemical Stability:	Stable under recommended handling and storage conditions (see section 7).
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Direct sunlight, extremely high or low temperatures, and incompatible materials.
Incompatible Materials:	Strong acids, strong bases, strong oxidizers.
Hazardous Decomposition Products:	Carbon oxides (CO, CO2).

Section 11. Toxicological Information

Information on Toxicological Effects - Product:

Acute Toxicity: Dermal: Harmful in contact with skin. Inhalation:vapour: Harmful if inhaled.

LD50 and LC50 Data:
Xylene:
ATE US (dermal): 1,100.00 mg/kg body weight
ATE US (vapors): 11.00 mg/l/4h

Skin Corrosion/Irritation: Causes skin irritation.

pH: Not applicable

Serious Eye Damage/Irritation: Not classified

pH: Not applicable

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Suspected of causing cancer.

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: Harmful if inhaled. Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness.

Symptoms/Injuries After Skin Contact: Causes skin irritation. Redness, pain, swelling, itching, burning, dryness, and dermatitis. This material is harmful through skin contact, and can cause adverse health effects or death in significant amounts. This material may be absorbed through the skin and eyes.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic Symptoms: Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Information on Toxicological Effects - Ingredient(s):

LD50 and LC50 Data:

Xylenes (o-, m-, p- isomers) CAS No. 1330-20-7)
LD50 Oral Rat: > 5000 mg/kg
LD50 Dermal Rabbit: > 4350 mg/kg
LC50 Inhalation Rat: 29.08 mg/l/4h
LC50 Inhalation Rat: 6247 ppm/4h (species: Sprague-Dawley)
ATE US (dermal): 1,100.00 mg/kg body weight

Ethylbenzene CAS No. 100-41-4
LD50 Oral Rat: 3500 mg/kg
LD50 Dermal Rabbit: 15400 mg/kg
LC50 Inhalation Rat: 17.2 mg/l/4h (Exposure time: 4 h)

Xylenes (o-, m-, p- isomers) CAS No. 1330-20-7
IARC Group: 3

Ethylbenzene CAS No. 100-41-4
IARC Group: 2B
National Toxicology Program (NTP) Status: Evidence of Carcinogenicity.
OSHA Hazard Communication Carcinogen List: In OSHA Hazard Communication Carcinogen list.

Section 12. Ecological Information

Toxicity:

Ecology - General: Very toxic to aquatic life.

Xylenes (o-, m-, p- isomers) CAS No. 1330-20-7
LC50 Fish 1: 3.3 mg/l

	EC50 Daphnia 1: 3.82 mg/l (Exposure time: 48 h - Species: water flea) LC 50 Fish 2: 2.661 (2.661 - 4.093) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) EC50 Daphnia 2: 0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris) NOEC chronic crustacea: 1.17 Ethylbenzene CAS No. 100-41-4 LC50 Fish 1: 11.0 - 18.0 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) EC50 Daphnia 1: 1.8 - 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna) LC 50 Fish 2: 4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
Persistence and Degradability:	Xylene Persistence and Degradability: Not established.
Bioaccumulative Potential:	Xylene Bioaccumulative Potential: Not established. Xylenes (o-, m-, p- isomers) CAS No. 1330-20-7 BCF Fish 1: 0.6 (0.6 - 15) Log Pow: 2.77 - 3.15 Ethylbenzene CAS No. 100-41-4 BCF Fish 1: 15 Log Pow: 3.118
Mobility in soil:	Not available.
Other adverse effects:	Other information: Avoid release to the environment.

Section 13. Disposal

Waste disposal recommendations:	Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
Additional Information:	Container may remain hazardous when empty. Continue to observe all precautions.
Ecology – Waste Materials:	Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

Section 14. Transport Information

UN Number	1307
UN Proper Shipping Name	Xylenes
DOT Classification	3
Packing Group	III
DOT Special Provisions (49 CFR 172.102):	B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal

	to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT - Packaging exceptions:	150
DOT - Packaging non bulk:	203
DOT - Packaging bulk:	242
Marine pollutant:	Marine pollutant
Emergency Response Guide (ERG) Number:	130
DOT Vessel Stowage Location:	A - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel.
IMDG - EMS-No:	F-E, S-D
DOT Quantity Limitations Cargo Aircraft Only (49 CFR 175.75):	60 L 220 L
IATA - Packing Group:	III
IATA - Hazard Class:	3
IMDG - Packing Group:	III
IMDG - Hazard Class:	3

Section 15. Regulatory Information

SARA 311/312:	Refer to Section 2 of the SDS.
SARA 302:	N.A.
SARA 304:	N.A.
SARA 313:	Xylene (mixed isomers) ETHYLBENZENE.
TSCA:	All components are listed or exempt.
CERCLA Hazardous Substance List:	Xylene (mixed isomers) ETHYLBENZENE.
Clean Air Act (CAA) Section 112, 112 (r):	N.A.
New Jersey Right to Know Components:	XYLENES. ETHYL BENZENE.
Massachusetts Right to Know Components:	XYLENES. ETHYLBENZENE
Rhode Island Right to Know Components:	Xylene.

	Ethyl benzene.
Pennsylvania Right to Know Components:	BENZENE, DIMETHYL-. BENZENE, ETHYL-.

Section 16. Other Information

Revision Date	2/26/2024
Legend	N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined
Additional Information:	The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.