

SAFETY DATA SHEET

Section 1. Identification

Product name : Xylene

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Solvent
Creation date : 03/13/2015
Print date : 03/13/2015
Version : 1.0
Supplier's details : Deep South Chemical, Inc. 229 Millstone Road, Broussard LA 70518
For Product Information/MSDSs Call: 337-837-9931
Emergency telephone number (with hours of operation) : CHEMTREC 800-424-9300 (U.S. 24 hour)
(001)281-276-5400
CANUTEC 613-996-6666 (Canada 24 hours)
CHEMTREC Int'l 01-703-527-3887 (International 24 hour)

Section 2. Hazards identification

Classification of the substance or mixture : Flammable Liquid 3: H226 Flammable liquid and vapor
Acute Toxicity 4: H312 Harmful in contact with skin
Acute Toxicity 4: H332 Harmful if inhaled
Skin Irritant 2: H315 Causes skin irritation

GHS label elements

Hazard pictograms :  **GHS02**

 **GHS07**

Signal Word : Warning

Hazard statements

H226 Flammable liquid and vapor.
H312+H332 Harmful in contact with skin or if inhaled.
H315 Causes skin irritation

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames/hot surfaces. No Smoking.
P241 Use explosion-proof electrical/ventilating/lighting equipment
P261 Avoid breathing dust/fume/gas/mist/vapor/spray.

P303+P361+P353 IF ON SKIN: Remove immediately all contaminated clothing. Rinse skin with water/shower.
P321 Specific treatment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system

NFPA ratings: Health (2) Fire (3) Reactivity (0)

HMIS ratings: Health (2) Fire (3) Reactivity (0)

Hazards not otherwise classified : No additional information.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Xylene	79-82	1330-20-7
Ethylbenzene	18-20	100-41-4
Toluene	0.0-1.0	108-88-3

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Check for and remove any contact lenses. If eye irritation persists, get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in a recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt, or waistband.

Skin contact : Flush contaminated skin with mild soap and plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Drink plenty of water. If victim is drowsy or unconscious, place on left side with head down. Seek medical attention. DO NOT INDUCE VOMITING.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Vapors cause irritation. Splashes cause severe irritation, possible corneal burns, and eye damage.

Inhalation : May cause respiratory irritation to nose, throat and respiratory tract. Inhalation of high concentrations may result in nausea, vomiting, headache, ringing in the ears, and severe breathing difficulties, which may be delayed in onset. Substernal pain, cough, and hoarseness are also reported. High vapor concentrations are anesthetic and central nervous system depressants. Exposure to high concentrations of xylene vapor may cause reversible damage to the kidneys and liver.

Skin contact : May cause skin irritation. Toxic if absorbed through skin.
Ingestion : Irritation to mouth, throat and digestive tract. Minute amounts aspirated into the lungs can produce a severe hemorrhagic pneumonitis with severe pulmonary injury or death.

Over-exposure signs/symptoms

Eye contact : Pain or irritation, watering, redness.
Inhalation : Respiratory tract irritation, coughing, dizziness, breathing difficulties, loss of appetite, nausea, vomiting, abdominal pain.
Skin contact : Irritation, redness.
Ingestion : Fatigue, dizziness, nausea, vomiting.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : High doses may cause CNS depression (fatigue, dizziness, and possibly loss of concentration, with collapse, coma, and death in cases of severe over-exposure), and liver and kidney damage. Blood count, liver function test, and urinalysis are suggested.

Specific treatments : Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Flammable liquid.

Hazardous thermal decomposition products : Carbon dioxide, carbon monoxide

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Eliminate all sources of ignition. All equipment used when handling this product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Dike spill area and do not allow product to reach sewage system or surface or ground water. Notify any reportable spill to authorities. (See section 12 for environmental risks and 13 for disposal information.) Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Keep container tightly closed when not in use. Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away. Protect against electrostatic charges.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including incompatibilities : Store only in tightly closed, properly vented containers away from heat, sparks, open flame and strong oxidizing agents.

Section 8. Exposure controls/personal protection

Control parameters

1330-20-7 Xylene

PEL (OSHA) TWA: 100 ppm, STEL: 150 ppm

TLV (ACGIH) TWA: 100 ppm, STEL: 150 ppm

IDLH 900 ppm

100-41-4 Ethylbenzene

PEL (OSHA) TWA: 100 ppm, STEL: 125 ppm
TLV (ACGIH) TWA: 100 ppm, STEL: 125 ppm
IDLH 800 ppm

108-88-3 Toluene

PEL (OSHA) TWA: 200 ppm, STEL: 150 ppm
TLV (ACGIH) TWA: 50 ppm, STEL: 150 ppm
IDLH 500 ppm

Consult local authorities for acceptable exposure limits. Only components of this product with established exposure limits appear in the box above.

[Appropriate engineering controls](#) : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

[Individual protection measures](#)

[Hygiene measures](#) : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

[Eye/face protection](#) : Wear chemical safety goggles. When transferring material, wear face-shield in addition to chemical safety goggles.

[Hand protection](#) : Chemical-resistant gloves: rubber gloves/Neoprene gloves.

[Skin protection](#) : Wear long sleeves to prevent repeated or prolonged skin contact.

[Respiratory protection](#) : If a risk assessment indicates it is necessary, use a properly fitted, air purifying or supplied air respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Physical state : Liquid
Color : Clear, colorless
Odor : Light aromatic
pH : Not determined
Melting/freezing point : -54 °F
Boiling point : 279°F
Flash point : Closed cup: 80°F
Evaporation rate : 0.86 (butyl acetate = 1)
Flammability : Flammable in the presence of open flames, sparks and static discharge.
Lower and upper explosive limits : 1.0 vol% LEL, 6.6 vol% UEL

Vapor pressure : 5.1 mm Hg
Vapor density : 3.7 at 61-90°F (Air = 1.0)
Relative density : 0.87 at 68°F
Density : 7.26 lbs/gal
Solubility in water : 0.2 g/L at 68°F
Partition coefficient : Not determined
n-octanol/water
Auto-ignition temp. : 980°F
Decomposition temp. : Not determined
Viscosity : Not determined
VOC : 100.0%

Section 10. Stability and reactivity

Reactivity : Will not occur.
Chemical stability : Stable under recommended storage conditions.
Conditions to avoid : Heat, sparks, open flames, other ignition sources, and oxidizing conditions.
Ignition may occur at temperatures below those published.
Materials to avoid : Strong oxidizing agents and strong acids.
Thermal decomposition : Carbon oxides, smoke and unidentified organic components.
Hazardous reactions : Will not occur.

Section 11. Toxicological Information

[Information on toxicological effects](#)

Toxicological Data:

Xylenes: investigated as a reproductive effector.

Mixed Xylenes: Oral rat LD50: 4300mg/kg; Inhalation rat LC50: 5000ppm/4H; skin rabbit LD50:>1700 mg/kg; Irritation, skin rabbit: 500 mg/24-hour, moderate (Standard Draize); Irritation, eye rabbit 87 mg, mild (Standard Draize). Investigated as a tumorigen, mutagen, and reproductive effector.

Section 12. Ecological information

Environmental Fate:

When released into the soil, this material may evaporate to a moderate extent. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released into water, this material may evaporate to a moderate extent. When released into water, this material may biodegrade to a moderate extent. When released into the air, this material may be moderately degraded by a reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of less than 1 day. This material is not expected to significantly bioaccumulate. (mixed xylenes: octanol/water partition coefficient 3.1-3.1; bioconcentration factor=1.3, eels)

Environmental Toxicity: This material is expected to be slightly toxic to aquatic life. The LC50/96-hour values for fish are between 10 and 100 mg/L.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the

requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

DOT Transport Information: UN 1307, Xylenes, 3, PGIII

DOT Reportable Quantity: Not applicable

Marine pollutant: Not available

Section 15. Regulatory information

Toxic Substances Control Act (TCSA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

CERCLA RQ-40 CFR 302.4(a)

<u>Component</u>	<u>CERCLA RQ (lbs)</u>
Xylene(O-, M-, P- Isomers)	100
Ethylbenzene	1000
Toluene	1000

SARA 302 Components-40 CFR 355 Appendix A

<u>Component</u>	<u>TPQ(Threshold Planning Quantity) (lbs)</u>
None	

Section 311/312 Hazard Class-40 CFR 370.2

Immediate (X)
 Delayed (X)
 Fire (X)
 Reactive ()
 Sudden Release of Pressure ()

SARA 313-40 CFR 372.65

<u>Component</u>	<u>CAS Number</u>	<u>%(by weight)</u>
Xylene (Mixed Isomers)	1330-20-7	80
Ethylbenzene	100-41-4	20
Toluene	108-88-3	<1

Section 16. Other information

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