



SAFETY DATA SHEET

Issue Date: March 22, 2017

Revision Date: June 25, 2018

Version 2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Xylene

Other Means of Identification: SDS #: F6507

Recommended Use: Cleaning Solvent

Restrictions on Use: No Data

Supplier of the Safety Data Sheet including Address:

ChemMasters Inc.
300 Edwards Street
Madison, OH 44057

Telephone Numbers

Company Phone Number

Phone: 800-486-7866, 440-428-2105

Fax: 440-428-7091

Emergency Telephone : ChemTrec 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Product is Flammable Liquid, may cause respiratory irritation, drowsiness or dizziness, may cause damage to Central Nervous System, may be harmful if swallowed, may be fatal if swallowed and enters airways, causes Eye and Skin irritation, Harmful if inhaled or in contact with skin, Suspected of causing cancer, may damage fertility or the unborn child, Toxic to aquatic life.

Target Organs: Eyes, Skin, Respiratory System, Central Nervous System

GHS Classification

Flammable Liquids Category 3

Acute Toxicity, Inhalation Category 4

Acute Toxicity, Oral Category 5

Specific target organ toxicity – single exposure Category 3 (respiratory system)

Specific target organ toxicity – single exposure Category 2 (central nervous system)

Aspiration Hazard Category 1

Skin Corrosion/Irritation, Category 2

Eye Damage/Irritation, Category 2B

Carcinogenicity, Category 2

Toxic to Reproduction, Category 1B

Hazardous to the Aquatic Environment – Short Term (Acute) Hazard Category 2

Label Elements, including precautionary statements

Pictograms:



Signal Word: Danger

Hazard Statements:

H226	Flammable Liquid and Vapour
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways
H332	Harmful if inhaled
H312	Harmful in contact with skin
H315	Causes skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H371	May cause damage to central nervous system
H401	Toxic to aquatic life

Precautionary Statement(s)

Prevention:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233	Keep container tightly closed.
P240	Ground and bond the container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breath dust/fume/gas/mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P308+313	IF exposed or concerned: Get medical advice/attention.
P304+P340+P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P302+P352+P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER/doctor if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice or attention.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P370+P378	In case of fire use, dry chemical, alcohol resistant foam, halon or carbon dioxide to extinguish.
P391	Collect spillage

Storage: P403+P235+P233 Store in a well-ventilated place. Keep cool. Keep container tightly closed.
P405 Store Locked Up

Disposal: P501 Dispose of contents/container in accordance with local/regional/national regulations.

Hazards not otherwise classified: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component

Xylene, all isomers	CAS# 1330-2-07	60-100%
Ethylbenzene	CAS# 100-41-4	10-30%
Toluene	CAS# 108-88-3	<1%

Ingredients not listed on this safety data sheet are considered to be non-hazardous according to OSHA 1910.1200 or are not present above their cutoff levels. Where a range is displayed, the exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth only if conscious.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice or attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Alcohol-resistant foam, dry chemical, halon or carbon dioxide

Specific Hazards Arising from the Chemical

In a fire or if heated a pressure increase will occur and the container may burst.

Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger.

Hazardous Combustion Products: Carbon dioxides & Carbon monoxide

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and full protective gear for firefighting.

Further Information: Use water spray to cool unopened containers. See Section 7 for safe handling and storage

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or waterways.

Methods and Material for Containment and Cleaning Up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond the container and receiving equipment. Take measures to prevent the buildup of electrostatic charge. Use non-sparking tools. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry, cool and well ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component Exposure Limits

Xylene, Mixed Isomers, CAS# 1330-20-7, TWA 100 ppm ACGIH 8 hrs., STEL 150 ppm ACGIH 15 min., PEL 100 ppm OSHA 8 hrs.

Ethylbenzene, CAS# 100-4104, TWA 100 ppm ACGIH 8 hrs., STEL 125 ppm ACGIH 15 min., TWA 100 OSHA 8 hrs.

Toluene, CAS# 108-88-3, TWA 200 ppm 8 hrs, CEIL 300 ppm OSHA

Appropriate Engineering Controls

Local Ventilation: Recommended

General Ventilation: Recommended

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection: Use proper protection – Safety Glasses as a minimum

Skin and Body Protection: Wash at mealtime and end of shift. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.). Use chemical protective gloves as a minimum and wash skin promptly upon any skin contact.

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before & after breaks and work day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear

Color: Colourless

Odor: Petroleum Solvent Odor

Odor threshold: No Data

<u>Property</u>	<u>Value</u>	<u>Remarks – Method</u>
Vapor Pressure	0.9 kPa (7 mm Hg at 20 C)	
Vapor Density	3.7	
Relative Density	Not Available	
pH:	Not Relevant	
Melting/Freezing Point	Not Relevant	
Solubility	<0.1% in water	
Evaporation Rate	Not Available	
Flash Point	27 Degrees C (81 Degrees F)	PM (D93) Closed Cup
Flammability Limits	Lower Limit: 1% Upper Limit: 7%	
Flammability (Solid, gas)	Not Relevant	
Auto Ignition Temperature	Not Available	
Initial Boiling Point/Boiling Range	Not Available	
Decomposition Temperature	Not Available	
Viscosity	Not Available	
Specific Gravity	0.87 at 25 Degrees C	7.25 +/- 0.01 Lbs./gal.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Heat, Flames and Sparks

Incompatible Materials: Keep away from strong oxidizing agents, strong alkalis and strong acids.

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions, Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Skin Contact, Eye Contact, Ingestion

Symptoms of Exposure:

Causes eye and skin irritation.

Product may cause headache, dizziness, drowsiness other central nervous system effects.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

Repeated Exposure may cause skin dryness and cracking.

Aspiration Hazard: May cause chemical pneumonitis (aspiration of liquid) if swallowed and enters airways.

Carcinogenicity: Suspected of causing cancer

Component Xylene classified by:

IARC as a 3 Group 3: Not classifiable as to its carcinogenicity to humans

NTP Not listed as a known or anticipated carcinogen

Component Ethylbenzene classified by:

IARC as a 2B: Possibly carcinogenic to humans

ACGIH as an A3-Confirmed Animal carcinogen with unknown relevance to humans

DFG as a Category 4 (No significant contribution to human cancer)

Reproductive Toxicity:

Ethylbenzene: Available data characterizes this substance as a reproductive hazard. Exposure may damage fertility or the unborn child.

Other Chronic Effects:

Chronic over-exposure to this material may cause systemic toxicity, including adverse reactions to the following: kidney and liver.

Numerical Measures of Toxicity

Xylene: LD50 Oral Rat: 4,300 mg/kg; LD50 Dermal Rabbit 14,100 mg/kg, LC50 Inhalation Rat 4,550 ppm for 4 hrs.
Ethylbenzene: LD50 Oral Rat: 3,500 mg/kg; LD50 Dermal Rabbit 15,354 mg/kg, LC50 Inhalation Rat 17.2 mg/l for 4 hrs.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Material is expected to be toxic to aquatic organisms.

Acute Toxicity: Fish

Components:

Xylenes: LC50 – *Morone saxatilis* – 2 mg/l – 96 hrs.

Ethylbenzene: LC50 *Oncorhynchus mykiss* – 11-18 mg/l 96 hr.

Acute Toxicity: Invertebrates

Components:

Xylenes: EC50 *Daphnia magna* (water flea) 75.49 mg/l 24 hrs.

Ethylbenzene: EC50 *Daphnia magna* (water flea) 1.8-2.4 mg/l 48 hrs.

Acute Toxicity: Algae

Components:

Xylenes: Growth inhibition EC50 – *Pseudokirchneriella subcapitata* 72 mg/l 14 days.

Ethylbenzene: Growth inhibition EC50 – *Pseudokirchneriella subcapitata* >438 mg/l 4 days.

Persistence and Degradability: No Data Available

Bioaccumulation: No Data Available

Mobility: This material has a low solubility in water. The solvent has high volatility (tendency to move from water to air) and will partition rapidly to the air. Therefore chronic aquatic toxicity is not expected, however a significant spill may cause long-term adverse effects in the aquatic environment.

Other Adverse Effects: No Data Available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes: Under RCRA 40 CFR 261 this material is a hazardous waste. Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

D.O.T. (Ground)

UN1307, XYLENES, 3, III

Limited Quantity Exception for Ground Shipments Only

49 CFR 173.150(b) Limited Quantities

Limited Quantities of flammable liquids (Class 3) are excepted from labeling requirements ..., specification packaging ..., and shipping papers...

This exception does not apply to air and vessel shipment.

49 CFR 173.150(b)(3) Limited Quantities for flammable liquids in Packing Group III and combustible liquids, inner packagings not over 5.0 Liters (1.3 gallons) net capacity each, placed in a strong outer packaging

I.A.T.A. (Air)

UN1307, XYLENES, 3, III

I.M.D.G. (Vessel)
UN1307, XYLENES, 3, III
Marine Pollutant: No

15. REGULATORY INFORMATION

International Inventories

TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

US Federal Regulations

SARA 302: None

SARA 311/312 Hazard Categories: Acute: Yes, Fire: Yes, Chronic: Yes

SARA 313 Hazard Categories:

<u>CAS Number</u>	<u>Component Name</u>	<u>Wt. %</u>
1330-20-7	Xylenes	60-100%

CWA (Clean Water Act): This product contains petroleum hydrocarbons and may be subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the product into or leading to surface waters must be reported to the National Response Center at 1-800-424-8802.

Supplemental State Compliance Information

California:

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm. Ethylbenzene 10-30%; Toluene <1%; Benzene <0.01%

States Right To Know:

Xylenes, CAS# 1330-20-7: New Jersey, Illinois, Michigan, Minnesota, Pennsylvania, Rhode Island.

U.S. EPA Label Information: No Data

16. OTHER INFORMATION

HMIS Classification:

Health hazard: 2*
Flammability: 3
Physical Hazards: 0

NFPA Rating:

Health hazard: 2
Fire: 3
Reactivity Hazard: 0

Issuance Date: March 22, 2017

Revision Date: June 25, 2018

Revision Note: Reviewed and Updated

Date of Previous Version: August 21, 2014

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet