

XYLENE

Safety Data Sheet

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Version: #2

SECTION 1: Identification

1.1. Identification

Product name : Xylene
EC number : 203-576-3
CAS-No. : 1330-20-7
Formula : C₆H₄(CH₃)₂

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

Identified uses : Chemical for analysis and production.

1.3. Supplier

FARSA Group Ltd
Sales@farsagroup.az

1.4. Emergency contacts

Emergency number : **+994512707856**

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 : Flammable liquids (Category 3), H226
 Acute toxicity, Inhalation (Category 4), H332
 Acute toxicity, Dermal (Category 4), H312
 Skin irritation (Category 2), H315
 Eye irritation (Category 2), H319
 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
 Specific Target Organ Toxicity (repeated exposure), (Category 2), H373
 Aspiration hazard (Category 1), H304

2.2. Label elements

Contains : Xylene

Pictogram :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H312 + H332 Harmful in contact with skin or if inhaled.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements : 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 container and receiving equipment.
 P242 Use non-sparking tools.
 P243 Take action to prevent static discharges.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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- P264 Wash hand thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301 + P316 IF SWALLOWED: Get emergency medical help immediately.
 P302 + P352 IF ON SKIN: Wash with plenty water
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P319 Get medical help if you feel unwell.
 P331 Do NOT induce vomiting.
 P332 + P317 If skin irritation occurs: Get medical help.
 P337 + P317 If eye irritation persists: Get medical help.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P403 + P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

2.3. Other hazards

None

SECTION 3: Composition/information on ingredients

3.1. Substances

Synonyms : Dimethylbenzene, Methyl toluene.

CAS-No	EC-No	EC-Index-No	Formula	Molecular Weight	Weight %
1330-20-7	215-535-7	601-022-00-9	C ₆ H ₄ (CH ₃) ₂	106.17 g/mol	<=100

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Concentration	Classification
Xylene		
CAS-No 1330-20-7 EC-No 215-535-7 EC-Index-No 601-022-00-9	<=100%	Flammable liquids (Category 3), H226 Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Specific Target Organ Toxicity (repeated exposure), (Category 2), H373 Aspiration hazard (Category 1), H304

SECTION 4: First-aid measures

4.1. Description of first aid measures

General advice

- : Show this safety data sheet to the doctor in attendance.

Inhalation

- : Move to fresh air in case of accidental inhalation of vapors. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus.

Ingestion

- : Rinse mouth. Do not induce vomiting. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus. Obtain medical attention. Never give anything by mouth to an unconscious person.

Skin contact

- : Remove contaminated clothing and wash affected skin with soap and water. If signs of poisoning appear, treat as for inhalation. Obtain medical attention. Wash contaminated clothing before reuse. Contaminated combustible material, e.g. clothing ignites more readily and burns fiercely.

Eye contact

- : If the substance has got into the eyes, immediately wash out with plenty of water at least 15 minutes. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and section 11

4.3. Indication of any immediate medical attention and special treatment needed

After swallowing, caution if victim vomits. Risk of aspiration. Keep airways free. Subsequently administer; Activate charcoal 20-40 g in 10% slurry. No alcohol.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Extinguish with carbon dioxide, dry chemical or foam. In the event of fire, cool tanks with water spray.

5.2. Special hazards arising from the substance or mixture

Specific hazards : Vapors may form explosive mixture with air at ambient temperature. Flash back possible over considerable distance.

5.3. Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

5.4. Further information

Standard procedure for chemical fires. Take measures to prevent electrostatic charging. Prevent firefighting water from entering surface water or groundwater.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Environmental precautions : Contain or absorb leaking liquid with sand or earth, consults an expert. Prevent liquid entering sewers, basements and work pits.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Spillage: May react with combustible substances creating fire or explosion hazard and formation of toxic fumes. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Soak up with inert absorbent material (e.g. sand, silica gel or chemical absorbent pads). Prevent liquid entering sewers, basements and work pits; vapor may create explosive atmosphere. Transfer to covered steel drums. Dispose of promptly.

6.4. Reference to other section

Reference to other section : For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions : Keep container tightly closed. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Do not empty into drains.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions : Keep tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep out of direct sunlight and away from incompatible materials. Store in original container. Electrical equipment should be protected to the appropriate standard.

7.3. Specific end use(s)

Specific end use(s) : Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No information available

8.2. Exposure controls

Protective equipment :



Appropriate engineering controls :

Eye/face protection
Skin protection

- : The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Ventilation hoods and fans required when working with organic solvents or in hot melt applications.
- : Goggles giving complete protection to eyes.
- : Chemical resistant apron / flame retardant antistatic protective clothing, heavy duty work shoes. Handle with gloves (Full contact wears gloves from viton material. Splash contact wears gloves from nitrile rubber material)
The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it

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- Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment. Required when vapor/aerosols are generated filter A (EN 141 or EN 14387).
- Environmental exposure controls** : Prevent liquid entering sewers, basements and work pits.

SECTION 9: Physical and chemical properties

9.1. Appearance

Appearance	Liquid	Explosive limits: upper	7.0 % (V)
Colour	Colorless	Vapour pressure	10 hPa at 20 °C
Odour	Aromatic	Relative vapour density	3.7
Odour threshold	Not available	Density	0.860 g/ml at 20 °C
pH	Not available	Water solubility	0.2 g/l at °C
Melting point/range	>-34 °C	Partition coefficient (n-octanol/water)	log Pow: 3.12
Boiling point/range	137-143 °C at 1013 hPa	Auto-ignition temperature	465 °C
Flash point	25 °C (closed cup)	Decomposition temperature	Not available
Evaporation rate	Not available	Viscosity	0.6 mPa.s at 20 °C
Flammability (solid, gas)	Not available	Explosive properties	Not explosive
Explosive limits: lower	1.0 % (V)	Oxidizing properties	The substance or mixture is not classified as oxidizing.

9.2. Other information

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Inflammable

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reaction

Risk of explosion in contact with nitric acid, uranium hexafluoride.

The substance can react dangerously with strong oxidizing agent, conc. sulfuric acid, sulfur.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agent, conc. sulfuric acid, nitric acid, uranium hexafluoride, sulfur.

Unsuitable working materials: various plastic, rubber and light metals.

10.6. Hazardous decomposition products

Carbon monoxides, Carbon dioxides (Hazardous decomposition products from under fire condition).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - inhalation	Rat	LC ₅₀ mg/l 28
Acute toxicity - oral	Rat	LD ₅₀ mg/kg 2840
Acute toxicity - dermal	Rabbit	LD ₅₀ mg/kg 4350

- Acute oral toxicity** : Gastrointestinal symptoms, risk of aspiration upon vomiting.
- Acute inhalation toxicity** : May lead to the formation of oedemas in the respiratory tract.
- Skin corrosion/irritation** : Slight irritation, degreasing effect on the skin, possibly followed by secondary inflammation, danger of skin absorption.
- Serious eye damage/eye irritation** : Slight irritation.
- Respiratory or skin sensitization** : Not available
- Gem cell mutagenicity** : Bacterial mutagenicity; Bacillus subtilis is negative.
Mutagenicity; mammal cell test micronucleus negative.
- Carcinogenicity** : Not available
- Reproductive toxicity** : Not available
- Teratogenicity** : Not available
- Specific target organ toxicity (STOT) - single exposure** : Not available
- Specific target organ toxicity (STOT) - repeated exposure** : Not available
- Aspiration hazard** : Not available
- Further information** : After long term exposure to the chemical: dermatitis. After absorption of toxic quantities: Systemic effects; headache, drowsiness, dizziness, euphoria, excitation, spasms, in certain circumstances narcosis. Effect potentiated by: ethanol.
The product should be handled with the care usual when dealing with chemicals.

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SECTION 12: Ecological information

12.1. Toxicity

Toxicity	
Toxicity to fish	LC ₅₀ Oncorhynchus mykiss: 8.2 mg/l 96h.
Toxicity to daphnia and other aquatic invertebrates	EC ₅₀ Daphnia magna: 75.5 mg/l 24h

12.2. Persistence and degradability

Biodegradability (n-octanol/water) : Not available

12.3. Bioaccumulative potential

Partition coefficient : log Pow: 3.12
Bioaccumulation potential is to be expected (log Po/w >3).

12.4. Mobility in soil

Mobility : Not available

12.5. Other adverse effects

Biological effects; Harmful effect on aquatic organisms. Hazard for drinking water supplies.
Do not allow to enter waters, waste water or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

Contaminated packaging : Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

SECTION 14: Transport information

14.1. Transport information

Land transport (ADR/RID)

UN number : 1307
UN proper shipping name : XYLENES
Transport hazard class(es) : 3
Packing group : III
Environmental hazards : No
Special precautions for uses : Yes

Sea transport (IMDG)

UN number : 1307
UN proper shipping name : XYLENES
Transport hazard class(es) : 3
Packing group : III
Marine pollutant : No
Special precautions for uses : Yes
EmS : F-E S-D

Air transport (IATA)

UN number : 1307
UN proper shipping name : XYLENES
Transport hazard class(es) : 3
Packing group : III
Environmental hazards : No
Special precautions for uses : No

River transport (AND/ADNR)

(Not examined)

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Not Available

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15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3	: H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H312 + H332 Harmful in contact with skin or if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.
Recommended restrictions	: Take notice of labels and safety data sheets for the working. Chemicals Take necessary action to avoid static electricity discharge
Reference	: Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008. Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations.

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 guidance 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