

**Safety Data Sheet**

according to 29CFR1910/1200 and GHS Rev. 3

**Initial preparation date:** : 01.31.2015**Xylenes,****SECTION 1: Identification of the substance/mixture and of the supplier****Product name:** Xylenes,**Manufacturer/Supplier Article number:** S25629**Recommended uses of the product and restrictions on use:** Laboratory chemicals**Manufacturer Details:**

AquaPhoenix Scientific  
860 Gitts Run Road,  
Hanover, PA 17331  
(717) 632-1291

**Supplier Details:**

Fisher Science Education  
6771 Silver Crest Road, Nazareth, PA 18064  
800 955-1177

**Emergency telephone number:**

Emergency Telephone No.: 800-255-3924

**SECTION 2: Hazards identification****Classification of the substance or mixture:****Flammable**

Flammable liquids, category 3

**Irritant**Acute toxicity (oral, dermal, inhalation), category 4  
Skin irritation, category 2**Environmentally Damaging**

Chronic hazards to the aquatic environment, category 2

Acute hazards to the aquatic environment, category 2

Flam. Liq. 3.

Acute inhalation tox. 4.

Acute Dermal Tox. 4.

Skin Irrit. 2.

Aquatic Acute 2.

Aquatic Chronic 2.

**Signal word:** Warning**Hazard statements:**

Flammable liquid and vapour.

Harmful in contact with skin.

Harmful if inhaled.

Causes skin irritation.

Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

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If medical advice is needed have product container or label at hand.  
 Keep out of reach of children.  
 Read label before use.  
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 Avoid release to the environment.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Keep container tightly closed.  
 Ground/bond container and receiving equipment.  
 Use explosion-proof electrical/ventilating/light/equipment.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 Wash skin thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 Call a POISON CENTER or doctor/physician if you feel unwell.  
 Specific measures (see supplemental first aid instructions on this label).  
 If skin irritation occurs: Get medical advice/attention.  
 Take off contaminated clothing and wash before reuse.  
 In case of fire, use agents recommended in section 5 for extinction.  
 Collect spillage.  
 Store in a well ventilated place. Keep cool.  
 Dispose of contents and container to an approved waste disposal plant.

**Other Non-GHS Classification:** None**SECTION 3: Composition/information on ingredients****Ingredients:**

| <b>Ingredients:</b>       |         |       |
|---------------------------|---------|-------|
| CAS 1330-20-7             | Xylenes | 100 % |
| Percentages are by weight |         |       |

**SECTION 4: First aid measures****Description of first aid measures****After inhalation:**

Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen clothing and place exposed in a comfortable position. Seek medical assistance if cough or other symptoms appear.

**After skin contact:**

Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.

**After eye contact:**

Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses, if present and easy to do, and continue rinsing. Seek medical attention if irritation persists or concerned.

**After swallowing:**

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Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if irritation, discomfort, or vomiting persists.

**Most important symptoms and effects, both acute and delayed:**

Irritation. Shortness of breath. Headache. Nausea. Dizziness. Blurred vision. Prolonged or repeated exposure to skin causes defatting and dermatitis.

**Indication of any immediate medical attention and special treatment needed:**

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing agents:**

Use dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam. Use appropriate foam to blanket release and suppress vapors.

**Unsuitable extinguishing agents:**

Water may be ineffective.

**Special hazards arising from the substance or mixture:**

Thermal decomposition can lead to release of irritating gases and vapors. Containers may explode when heated. Vapors may travel to sources of ignition. Vapors may form explosive mixtures with air. Vapors may form an explosive mixture with air. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. This liquid floats on water and may travel to a source of ignition and spread fire. May accumulate static electricity.

**Advice for firefighters:****Protective equipment:**

Wear protective eyewear, gloves, and clothing. Refer to Section 8.

**Additional information (precautions):**

Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes and clothing. Cool closed containers exposed to fire with water spray.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation. Ensure that air-handling systems are operational. Remove all sources of ignition.

**Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

**Methods and material for containment and cleaning up:**

Wear protective eyewear, gloves, and clothing. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Remove source from ignition. Absorb with inert material and place in chemical waste container. Ventilate spill area. Have extinguishing agent available in case of fire. Eliminate all ignition sources. Stop or control the leak, if this can be done without undue risk. Use appropriate foam to blanket release and suppress vapors. Control runoff and isolate discharged material for proper disposal. Refer to Section 8.

**Reference to other sections:** None**SECTION 7: Handling and storage****Precautions for safe handling:**

Avoid contact with skin, eyes and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Do not eat, drink, smoke, or use personal products when

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handling chemical substances. Keep away from open flames, sources of ignition, hot surfaces. Use explosion-proof equipment and non-sparking tools. Refer to Section 13.

**Conditions for safe storage, including any incompatibilities:**

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials. Store as flammable. Keep away from open flames, hot surfaces and sources of ignition.

**SECTION 8: Exposure controls/personal protection****Control parameters:**

1330-20-7, Xylenes, ACGIH TLV TWA 435 mg/m<sup>3</sup>.  
1330-20-7, Xylenes (o-, m-, p- isomers), OSHA PEL 100 ppm TWA; 435 mg/m<sup>3</sup> TWA.

**Appropriate engineering controls:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use under a chemical fume hood.

**Respiratory protection:**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

**Protection of skin:**

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

**Eye protection:**

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.

**General hygienic measures:**

Perform routine housekeeping. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Before re-wearing, wash contaminated clothing. Work clothing that becomes wet should be immediately removed due to its flammability hazard.

**SECTION 9: Physical and chemical properties**

|  |                             |   |                                  |
|--|-----------------------------|---|----------------------------------|
| <b>Appearance (physical state, color):</b> | Clear, colorless liquid     | <b>Explosion limit lower:</b>                   | 0.9% (V)                         |
| <b>Odor:</b>                               | Sweet aromatic              | <b>Explosion limit upper:</b>                   | 6.7% (V)                         |
| <b>Odor threshold:</b>                     | 0.05 ppm                    | <b>Vapor pressure at 20°C:</b>                  | 8 mbar @20C                      |
| <b>pH-value:</b>                           | Not determined              | <b>Vapor density:</b>                           | 3.67                             |
| <b>Melting/Freezing point:</b>             | - 34C                       | <b>Relative density:</b>                        | 0.86 g/mL at 25 °C (77 °F)       |
| <b>Boiling point/Boiling range:</b>        | 137 - 140 °C (279 - 284 °F) | <b>Solubilities:</b>                            | Soluble in most organic solvents |
|  |                             | <b>Partition coefficient (n-octanol/water):</b> | log Kow 3.12                     |

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| <b>Flash point (closed cup):</b>      | 25 °C (77 °F)    | <b>Auto/Self-ignition temperature:</b> | 46 C   |
| <b>Evaporation rate:</b>              | Not determined   | <b>Decomposition temperature:</b>      | Not determined   |
| <b>Flammability (solid, gaseous):</b> | Flammable liquid | <b>Viscosity:</b>                      | a. Kinematic: Not determined<br>b. Dynamic: Not determined |
| <b>Density at 20°C:</b>               | Not determined   |  |  |

**SECTION 10: Stability and reactivity****Reactivity:**

Nonreactive under normal conditions.

**Chemical stability:**

Stable under normal conditions.

**Possible hazardous reactions:**

None under normal processing. Vapours may form explosive mixture with air.

**Conditions to avoid:**

Incompatible materials. Ignition sources. excess heat. Open Flames. Hot surfaces.

**Incompatible materials:**

Oxidizing agents. Acids.

**Hazardous decomposition products:**

Carbon oxides.

**SECTION 11: Toxicological information****Acute Toxicity:****Dermal:**

LD50 Rabbit: &gt;1,700 mg/kg 1330-20-7 (Xylenes).

**Chronic Toxicity:** No additional information.**Skin corrosion/irritation:**

Rabbit: Skin Irritation - 24 h 1330-20-7 (Xylenes).

**Serious eye damage/irritation:**

Rabbit: mild eye irritation 1330-20-7 (Xylenes).

**Respiratory or skin sensitization:** No additional information.**Carcinogenicity:****ACGIH - A4 -:** Not Classifiable as a Human Carcinogen Xylene (o-, m-, p- isomers) 1330-20-7**Germ cell mutagenicity:** No additional information.**Reproductive Toxicity:** No additional information.**STOT-single and repeated exposure:** No additional information.**Additional toxicological information:**

No additional information.

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**Initial preparation date:** : 01.31.2015**Xylenes,****SECTION 12: Ecological information****Ecotoxicity:** No additional information.**Persistence and degradability:**

Readily biodegradable.

**Bioaccumulative potential:**

potential for bioconcentration in aquatic organisms is low.

**Mobility in soil:** No additional information.**Other adverse effects:** No additional information.**SECTION 13: Disposal considerations****Waste disposal recommendations:**

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification. RCRA (40 CFR 261.33 Haz Waste Code): Xylenes, mixed isomers (1330-20-7) waste number U239. Included in waste stream: F039.

**SECTION 14: Transport information****US DOT****UN Number:**

ADR, ADN, DOT, IMDG, IATA

1307

**Limited Quantity Exception:**

None

**Bulk:****RQ (if applicable):** None**Proper shipping Name:** Xylenes.**Hazard Class:** 3**Packing Group:** III.**Marine Pollutant (if applicable):** No additional information.**Comments:** None**Non Bulk:****RQ (if applicable):** None**Proper shipping Name:** Xylenes.**Hazard Class:** 3**Packing Group:** III.**Marine Pollutant (if applicable):** No additional information.**Comments:** None**SECTION 15: Regulatory information****United States (USA)****SARA Section 311/312 (Specific toxic chemical listings):**

Acute, Fire

**SARA Section 313 (Specific toxic chemical listings):**

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1330-20-7 xylenes, mixed isomers 1.0 % de minimis concentration.

**RCRA (hazardous waste code):**

1330-20-7 Xylenes - U239.

1330-20-7 xylenes, mixed isomers RCRA waste code U239.

**TSCA (Toxic Substances Control Act) :**

All ingredients are listed.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**

1330-20-7 xylenes, mixed isomers 100 lbs.

**Proposition 65 (California):****Chemicals known to cause cancer:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**Canada****Canadian Domestic Substances List (DSL) :**

All ingredients are listed.

**SECTION 16: Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**NFPA:** 2-0-0**HMIS:** 2-0-0**GHS Full Text Phrases:** None**Abbreviations and Acronyms:** None