1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Xylenes
Product Number: 534056
Brand: Sigma-Aldrich
Product Use: For laboratory research purposes.
Supplier: Sigma-Aldrich
Manufacturer: Sigma-Aldrich Corporation
Address: 3350 Spruce Street, St. Louis, Missouri 63103
USA
Telephone: +1 800-825-5583
Fax: +1 800-325-5520
Emergency Phone #: For both supplier and manufacturer
Preparation Information: Sigma-Aldrich Corporation
         Product Safety - Americas Region
         1-800-521-8559

2. HAZARDS IDENTIFICATION

Emergency Overview
OSHA Hazards
Flammable liquid, Carcinogen, Target Organ Effect, Harmful by skin absorption,
Irritant
Target Organs
Liver, Kidney, Blood, Eyes, ears, Heart, Bone marrow, Central nervous system
GHS Classification
Flammable liquids (Category 3)
Acute toxicity, Oral (Category 5)
Acute toxicity, Inhalation (Category 4)
Skin Irritation (Category 2)
Serious eye damage (Category 1)
Acute aquatic toxicity (Category 2)
GHS Label elements, Including precautionary statements
Pictogram
Signal word: Danger
Hazard statement(s):
H225 Flammable liquid and vapour.
H303 May be harmful if swallowed.
H332 Harmful in contact with skin or if ingested.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H401 Toxic to aquatic life.
Precautionary statement(s):
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

NFPA Rating
Health hazard: 2
Flammability: 3
Physical hazards: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Xylene mixture of Isomers
Formula: C9H10
CAS-No.: 106-42-3
EC-No.: 202-049-4
Index-No.: 001-239-00-4
Concentration: <= 25 %

Ethylbenzene
CAS-No.: 106-42-3
EC-No.: 202-049-4
Index-No.: 001-239-00-4
Concentration: <= 25 %

Xylene
CAS-No.: 106-42-3
EC-No.: 202-049-4
Index-No.: 001-239-00-4
Concentration: <= 75 %

4. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Conditions of flammability
Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame or hot surface. No smoking.
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters
Wear self-contained breathing apparatus for fire fighting if necessary.
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Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection
Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and body protection
Complete suit protecting against chemicals. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form: clear, liquid
Colour: colourless

Safety data
pH: no data available
Melting point/freezing point: < 0 °C (≤ 32 °F)
Boiling point: 138 - 140 °C (277 - 284 °F) at 1,013 hPa (760 mmHg)
Flash point: 25 °C (77 °F) - closed cup
Ignition temperature: 464 °C (867 °F)
Autoignition temperature: no data available

Lower explosion limit: 1.1 % (V)
Upper explosion limit: 7.9 % (V)
Vapour pressure: 24 hPa (18 mmHg) at 27.70 °C (80.88 °F)
Density: 0.866 g/cm³ at 20 °C (68 °F)
Water solubility: no data available
Partition coefficient: n-octanol/water: no data available
Relative vapour density: 3.67 (Air = 1.0)
Odour: no data available
Odour threshold: no data available
Evaporation rate: no data available

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
Vapours may form explosive mixture with air.

Conditions to avoid
Heat, flames and sparks.

Materials to avoid
Strong oxidising agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Oral LD50: no data available
Inhalation LC50: no data available
Dermal LD50: no data available
Other information on acute toxicity: no data available

Skin corrosion/irritation: no data available
Serious eye damage/eye irritation: no data available
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: no data available

Carcinogenicity
IARC: 2B - Group 2B: Possibly carcinogenic to humans (Ethylbenzene)
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available
15. REGULATORY INFORMATION

OSHA Hazards
Formaldehyde, Carcinogen, Target Organ Effect, Harmful by skin absorption, inhalation

SARA 313 Components
Xylene
CAS No. 106-42-3

SARA 803 Components
Xylene
CAS No. 106-42-3

SARA 302 Hazards
Hazard, Chronic Health Hazard

SARA 311/312 Hazards
Causes respiratory irritation.
Causes eye irritation.

Massachusetts Right-To-Know Components
Xylene

California Prop 65 Components
Xylene


16. OTHER INFORMATION

Further information
Consult the safe data sheet for the product. It contains information about harmful effects and first aid treatment. The information is the latest data on the protection of the environment and on the product with regard to appropriate safety precautions. This data sheet is not recommended for the protection of the environment and on the product with regard to appropriate safety precautions. This data sheet is not recommended for the protection of the environment and on the product with regard to appropriate safety precautions. Babies and young children should not be allowed to handle the product or play with it. Keep out of reach of children.

17. DISPOSAL CONSIDERATIONS

Toxic to aquatic life.

18. TRANSPORT INFORMATION

D.O.T. (US) UN No.: 3091; Class: 3

Transport⊊s: 100 lbs

Shipping Description: Harmful by Inhalation


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