
SAFETY DATA SHEET

Xylenes, RS4050

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: High Purity Chemicals

Synonyms:

Other means of identification:

Recommended use of the chemical and restrictions on use:

Supplier Details:

Avantik

19 Chapin Road - Building C

Pine Brook, NJ 07058

(800) 783-9424

Emergency Contact:

CHEMTREC: 1.800.424.9300 (USA)

2. HAZARDS IDENTIFICATION

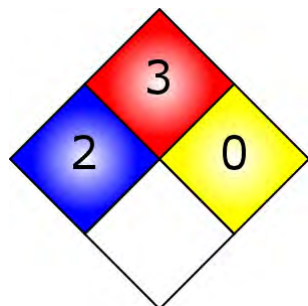
OSHA Hazards:

Flammable liquid, Irritant

Target Organs:

Respiratory system, Skin

NFPA



GHS label elements, including precautionary statements



Signal Word:

WARNING!

Hazard statement(s)

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

Precautionary statement(s)

P331	Do NOT induce vomiting.
P210	Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P280	Wear protective gloves and eye and face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.

GHS Classification(s)

Specific target organ toxicity - single exposure (Category 3)
 Acute toxicity, Inhalation (Category 4)
 Aspiration hazard (Category 1)
 Specific target organ toxicity - repeated exposure (Category 2)
 Acute Toxicity, Dermal (Category 4)
 Skin Irritation (Category 2)
 Eye Irritation (Category 2)
 Flammable Liquids (Category 3)

Other hazards which do not result in classification:

Potential Health Effects:

Organ	Description
Eyes	Product causes eye irritation.
Ingestion	Product may be harmful if swallowed.
Inhalation	Product may be harmful if inhaled. Causes respiratory tract irritation.
Skin	Product causes skin irritation.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical identity:	Xylene mixture
Common name / Synonym:	Dimethylbenzene, xylol, methyltoluene
CAS number:	1330-20-7; 100-41-4
EINECS number:	215-535-7; 202-849-4
ICSC number:	0268 (Ethyl Benzene)
RTECS #:	DA0700000 (Ethyl Benzene)
UN #:	UN1307 (Xylenes)
EC #:	601-023-00-4 (Ethyl benzene)

% Weight	Material	CAS
15-25	Ethyl benzene	100-41-4
75-85	Xylenes	1330-20-7

4. FIRST AID MEASURES

General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin

Wash skin with soap and copious amounts of water. Seek medical attention.

Inhalation

Remove person to fresh air. Seek medical attention. Give oxygen or artificial respiration as needed.

Eyes

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

Ingestion

DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Carbon oxides expected to be the primary hazardous combustion product.

Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

Flammable Properties**Classification**

OSHA/NFPA Class IC Flammable Liquid.

Flash point

25 °C (77 °F) - Closed Cup

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions:

Stop leak / contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Contain spill, then collect with an electrically protected vacuum cleaner or by wet-brushing and put the material into a convenient waste disposal container. Keep container closed.

7. HANDLING AND STORAGE

Precautions for safe handling:

Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated location. Keep containers upright to prevent leaks/spills.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters, e.g., occupational exposure limit values or biological limit values:

Occupational Exposure Limits

Component	Source	Type	Value	Note
Xylene	US (OSHA)	TWA	100 ppm / 435 mg/m3	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants.
Ethylbenzene	US (ACGIH)	TWA	100 ppm	ACGIH Threshold Limit Value
Xylene	US (ACGIH)	TWA	100ppm / 34 mg/m3	ACGIH Threshold Limit Value
Ethylbenzene	US (OSHA)	TWA	100 ppm / 435 mg/m3	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants.
Ethylbenzene	US (NIOSH)	TWA	100 ppm / 435 mg/m3	NIOSH Recommended Exposure Limit
Isopropyl Alcohol	US (OSHA)	TWA	400 ppm	

Appropriate engineering controls:

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

Individual protection measures, such as 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:

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection:

Wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

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 (<i>physical state, color, etc.</i>)	Liquid. Colorless, clear.
Freezing point	< 0 °C (< 32 °F)

Initial boiling point and boiling range	137 - 140 °C (279 - 284 °F) - lit
Flash point	25 °C (77 °F) - Closed Cup
Upper / Lower flammability or explosive limits	1.1% (V) / 7.0% (V)
Vapor pressure	24 hPa (18 mmHg) at 37.70 °C (99.86 °F)
Vapor Density	3.7
Relative Density	0.86 g/cm3
Solubility(ies)	Insoluble in water.
Partition coefficient n-octanol/water(ies)	log Pow: 3.15
Auto-ignition temperature	528°C (984°F)
Formula (XYLENE MIXTURE)	C8H10
Molecular Weight (XYLENE MIXTURE)	106.17 g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid (e.g., static discharge, shock or vibration)	Heat, flames, and sparks.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION

- Xylene Mixture 1330-20-7; 100-41-4

Product Summary:

No data is available for the teratogenic, mutagenic or the reproductive toxicity effects of this product.

Carcinogenicity

IARC: Group 3: Not classifiable as to its carcinogenicity to humans (Xylene); Group 2B: Possibly carcinogenic to humans (Ethylbenzene)

ACGIH: No data is available.

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.

Other Hazards

Organ	Description
Eyes	Product causes eye irritation.

Ingestion	Product may be harmful if swallowed.
Inhalation	Product may be harmful if inhaled. Causes respiratory tract irritation.
Skin	Product causes skin irritation.

12. ECOLOGICAL INFORMATION

- Xylene Mixture 1330-20-7; 100-41-4

Other adverse effects:

An environmental hazard is possible if product is handled/ disposed of improperly. Product is toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

Description of waste residues and information on their safe handling and methods of disposal:

UN number	UN1307
UN proper shipping name	Xylenes
Transport hazard class(es)	3
Packing group (if applicable)	III

Reportable Quantity

100 lbs.

IMDG

UN-Number: UN1307 Class: 3 Packing Group: III

EMS-No: F-E, S-D

Proper shipping name: XYLENES

Marine pollutant: No

IATA

UN-Number: UN1307 Class: 3 Packing Group: III

Proper shipping name: Xylenes

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question:

OSHA Hazards

Flammable liquid, Irritant

All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
Philippines	PICCS
United States of America	TSCA

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313: Ethylbenzene CAS-No. 100-41-4 Revision Date 2007-07-01 Xylene CAS-No. 1330-20-7 Revision Date 1989-08-11

SARA 311/312 Hazards

Acute Health Hazard

Chronic Health Hazard

Fire Hazard

CERCLA

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

Massachusetts Right To Know Components

Ethylbenzene CAS-No. 100-41-4 Revision Date 2007-07-01; Xylene CAS-No.1330-20-7 Revision Date 1989-08-11

Pennsylvania Right To Know Components

Ethylbenzene CAS-No. 100-41-4 Revision Date 2007-07-01; Xylene CAS-No.1330-20-7 Revision Date 1989-08-11

New Jersey Right To Know Components

Ethylbenzene CAS-No. 100-41-4 Revision Date 2007-07-01; Xylene CAS-No.1330-20-7 Revision Date 1989-08-11

California Prop 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Ethylbenzene
CAS-No. 100-41-4 Revision Date 2007-09-28

**16. OTHER INFORMATION:
INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS****Disclaimer**

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