

SECTION 1: Identification

1.1. GHS Product identifier

Product form	: Substance
Trade name	: Mixed Xylenes
Chemical name	: Reaction Mass of Ethylbenzene and Xylenes
CAS-No.	: Not applicable
Formula	: C8H10
Product code	: P102C, P812, P812B, P812C, P102

1.2. Other means of identification

EC Index-No.	: 601-022-00-9
EC-No.	: 905-588-0

1.3. Recommended use of the chemical and restrictions on use

Recommended use	: Industrial use, Professional use, Intermediate, Formulation of preparations, coatings, Use in Cleaning Agents, Use in Oil and Gas field drilling and production operations, Manufacture of rubber products, Fuels, Use as laboratory reagent, Use in Agrochemicals
Restrictions on use	: No additional information available

1.4. Supplier's details

Braskem S.A.
 Rua Eteno, 1561, Polo Petroquímico de Camaçari
 Camaçari, BA, CEP: 42810-000, Brasil
 Tel: +55 (71) 3413-3600
 productsafety@braskem.com

1.5. Emergency phone number

Emergency number	: CHEMTREC Brazil (Rio De Janeiro): +(55)-2139581449 Portuguese CHEMTREC Brazil (São Paulo): +(55)-1143491359 Portuguese CHEMTREC Brazil: 0800 892 0479 Portuguese CHEMTREC+1 703-741-5970 (International – 24h)
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SECTION 2: Hazard identification


2.1. Classification of the substance or mixture

Classification according to GHS BR (ABNT NBR 14725: 2023)

Flammable liquids, Category 3
 Acute toxicity (oral), Category 5
 Acute toxicity (dermal), Category 4
 Acute toxicity (inhalation:dust,mist) Category 4
 Skin corrosion/irritation, Category 2
 Serious eye damage/eye irritation, Category 2
 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
 Specific target organ toxicity — Repeated exposure, Category 2
 Aspiration hazard, Category 1
 Hazardous to the aquatic environment - Acute Hazard, Category 2
 Hazardous to the aquatic environment - Chronic Hazard, Category 3

2.2. GHS Label elements, including precautionary statements

GHS BR labelling

Hazard pictograms (GHS BR)	: 
Signal word (GHS BR)	: Danger
Hazard statements (GHS BR)	: H226 - Flammable liquid and vapour H303 - May be harmful if swallowed

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Precautionary statements (GHS BR)	: 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 (hearing organs) through prolonged or repeated exposure. H401 - Toxic to aquatic life H412 - Harmful to aquatic life with long lasting effects 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. P241 - Use explosion-proof electrical, lighting, ventilating equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P260 - Do not breathe vapours, mist. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or a doctor. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . 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. P312 - Call a POISON CENTER if you feel unwell. P331 - Do NOT induce vomiting. P332+P313 - If skin irritation occurs: Get medical advice or attention. P337+P313 - If eye irritation persists: Get medical advice or attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use carbon dioxide (CO ₂), dry extinguishing powder, foam, Water fog to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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2.3. Other hazards which do not result in classification

Handling this product may result in electrostatic accumulation. Use proper grounding procedures

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	: Reaction Mass of Ethylbenzene and Xylenes
CAS-No.	: Not applicable
EC-No.	: 905-588-0
EC Index-No.	: 601-022-00-9
Formula	: C ₈ H ₁₀

Name	GHS Product identifier	%
Ethylbenzene (Constituent)	CAS-No.: 100-41-4	45 – 65
Xylenes (o-, m-, p- isomers) (Constituent)	CAS-No.: 1330-20-7	35 – 55

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3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Give oxygen or artificial respiration as needed. Seek medical attention immediately.
First-aid measures after skin contact	: Rinse immediately with plenty of water for 15 minutes. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects, acute and delayed

Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation. Inhalation may cause irritation, cough, shortness of breath.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation. Intensive skin contact, may cause skin problems (contact dermatitis).
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed. May be fatal if swallowed and enters airways. Aspiration of this material may cause chemical pneumonia. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.
Chronic symptoms	: May cause damage to organs (hearing organs) through prolonged or repeated exposure.

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

Note to physician :	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Carbon dioxide (CO ₂), dry chemical powder, foam. Water fog.
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.

5.2. Specific hazards arising from the chemical

Fire hazard	: Flammable liquid and vapour. Vapours may cause fire/explosion if source of ignition is present. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. Under fire conditions closed containers may rupture or explode. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.
Explosion hazard	: Explosive vapour/air mixtures may be formed. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

Firefighting instructions	: Do not approach fire except upwind and only with proper skin and respiratory protection (supplied air only). Cool closed containers exposed to fire with water spray.
Protective equipment for firefighters	: Extra personal protection: complete protective clothing including self-contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate unnecessary personnel. Avoid contact with spilled material. Spilled material may present a slipping hazard. Stop leak if safe to do so.
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6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate spillage area. Do not breathe mist, vapours. Avoid contact with skin and eyes. No flames, no sparks. Eliminate all sources of ignition.

6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Ventilate area. Stop leaks if it can be done without personal risk. Eliminate every possible source of ignition. Prevent liquid from entering sewers, watercourses, underground or low areas. Notify authorities if liquid enters sewers or public waters.

6.2. Environmental precautions

Avoid discharge to the environment. Do not flush down sewers. Do not allow uncontrolled discharge of product into the environment. Do not allow run-off from fire fighting to enter drains or water courses.

6.3. Methods and materials for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Ventilate spillage area.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect up the product and place it in a spare container suitably labelled.
- Other information : Bioremediation of contaminated water bodies using granulated activated charcoal has been demonstrated to be the best method of removal from contaminated water bodies . Recovery and remediation of polluted soil and water can be accomplished through the Fenton reaction.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Container remains hazardous when empty. Continue to observe all precautions. Handle empty containers with care because residual vapours are flammable. Handling this product may result in electrostatic accumulation. Use proper grounding procedures.
- Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe mist, vapours. Avoid producing mist or vapours by heating of opened receptacle/container. Avoid contact with skin and eyes. Ground/bond container and receiving equipment. Use grounded electrical/mechanical equipment. Use only non-sparking tools. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment. Use grounded electrical/mechanical equipment. Provide adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Handling this product may result in electrostatic accumulation. Use proper grounding procedures.
- Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in original containers closed. Store in dry, cool, well-ventilated area. Store only in a limited quantity.
- Incompatible materials : Oxidizing agent. Strong acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Mixed Xylenes (Not applicable)	
Brazil - Occupational Exposure Limits	
Local name	Xileno (xilol)
OEL TWA	340 mg/m ³

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Mixed Xylenes (Not applicable)	
OEL TWA	78 ppm
Remark (NR-15)	Absorção também p/pele
Chemical category	skin designation{0}
Regulatory reference	Norma Regulamentadora Nº 15 - Atividades e Operações Insalubres
Brazil - Biological limit values	
Local name	Xilenos
BEI	1.5 g/g creatinine Parâmetro: Ácido metilhipúrico - Meio: Urina - Momento de amostragem: Final de jornada de trabalho.
Remark	Interpretação: IBE/EE - Indicadores Biológicos de Exposição Excessiva.
Regulatory reference	NR 7 - PCMSO
USA - ACGIH - Occupational Exposure Limits	
Local name	Xylene, mixed isomers (Dimethylbenzene)
ACGIH OEL TWA	20 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; hematologic eff; ototoxicity (for mixtures containing p-xylene); CNS impair. Notations: OTO (for mixtures containing p-xylene); A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2024
USA - ACGIH - Biological Exposure Indices	
Local name	Xylenes (technical or commercial grade)
BEI	0.3 g/g creatinine Parameter: Methylhippuric acids (The determinants refer to the total of all isomers of methylhippuric acids) - Medium: urine - Sampling time: End of shift
Remark	Commercial or technical grade xylenes consist of mixtures of isomers and significant amounts of ethyl benzene as indicated under "Properties." Because ethyl benzene is known to reduce the metabolism of xylenes to methylhippuric acids, the BEI applies to technical or commercial grades of xylenes only. The determinants refer to the total of all isomers of methylhippuric acids
Regulatory reference	ACGIH 2024
Ethylbenzene (100-41-4)	
Brazil - Occupational Exposure Limits	
Local name	Etilbenzeno
OEL TWA	340 mg/m ³
OEL TWA	78 ppm
Regulatory reference	Norma Regulamentadora Nº 15 - Atividades e Operações Insalubres
Brazil - Biological limit values	
Local name	Etilbenzeno
BEI	0.15 g/g creatinine Parâmetro: Soma dos ácidos mandélico e fenilgloxílico - Meio: Urina - Momento de amostragem: Final de jornada de trabalho - Observações: Não específico (pode ser encontrado por exposições a outras substâncias).
Remark	Interpretação: IBE/EE - Indicadores Biológicos de Exposição Excessiva.
Regulatory reference	NR 7 - PCMSO
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethyl benzene

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Ethylbenzene (100-41-4)	
ACGIH OEL TWA	20 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; ototoxicity; kidney eff; CNS impair. Notations: OTO (Ototoxicant); A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2024
USA - ACGIH - Biological Exposure Indices	
Local name	Ethyl benzene
BEI	150 mg/g creatinine Parameter: Sum of mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: end of shift (nonspecific)
Regulatory reference	ACGIH 2024
Xylenes (o-, m-, p- isomers) (1330-20-7)	
Brazil - Occupational Exposure Limits	
Local name	Xileno (xilol)
OEL TWA	340 mg/m ³
OEL TWA	78 ppm
Remark (NR-15)	Absorção também p/pele
Chemical category	skin designation{0}
Regulatory reference	Norma Regulamentadora Nº 15 - Atividades e Operações Insalubres
Brazil - Biological limit values	
Local name	Xilenos
BEI	1.5 g/g creatinine Parâmetro: Ácido metilhipúrico - Meio: Urina - Momento de amostragem: Final de jornada de trabalho.
Remark	Interpretação: IBE/EE - Indicadores Biológicos de Exposição Excessiva.
Regulatory reference	NR 7 - PCMSO
USA - ACGIH - Occupational Exposure Limits	
Local name	Xylene, mixed isomers (Dimethylbenzene)
ACGIH OEL TWA	20 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; hematologic eff; ototoxicity (for mixtures containing p-xylene); CNS impair. Notations: OTO (for mixtures containing p-xylene); A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2024
USA - ACGIH - Biological Exposure Indices	
Local name	Xylenes (technical or commercial grade)
BEI	0.3 g/g creatinine Parameter: Methylhippuric acids (The determinants refer to the total of all isomers of methylhippuric acids) - Medium: urine - Sampling time: End of shift
Remark	Commercial or technical grade xylenes consist of mixtures of isomers and significant amounts of ethyl benzene as indicated under "Properties." Because ethyl benzene is known to reduce the metabolism of xylenes to methylhippuric acids, the BEI applies to technical or commercial grades of xylenes only. The determinants refer to the total of all isomers of methylhippuric acids
Regulatory reference	ACGIH 2024

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8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Provide local exhaust or general room ventilation to minimize vapour concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures

Hand protection:

Wear suitable gloves resistant to chemical penetration. This material may attack some forms of plastics and rubbers. Use PVC. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Chemical goggles or safety glasses. Use splash goggles when eye contact due to splashing is possible

Skin and body protection:

Long sleeved protective clothing. Boots made of PVC

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear liquid. Colourless liquid.
Colour	: Colourless
Odour	: aromatic odour
Odour threshold	: Not available
pH	: Not applicable
Melting point	: Varies depending on the composition of the mixture (m-xylene = -47,4°C; o-xylene = -25°C; p-xylene = 13.3°C; ethylbenzene = -95°C)
Freezing point	: Not available
Boiling point	: 136 – 143 °C
Flash point	: 30 °C (ASTM D 93).
Relative evaporation rate (butylacetate=1)	: Not available
Flammability	: Flammable
Explosive limits	: Not available
Vapour pressure	: 9.6 mm Hg
Relative vapour density at 20°C	: 3.66 Ethylbenzene (Air = 1)
Relative density	: 0.862 – 0.872 g/cm ³ (@ 20/4°C)
Density	: Not available
Solubility	: Water: Insoluble
Partition coefficient n-octanol/water (Log Pow)	: 3.12 – 3.2
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: 464 °C
Decomposition temperature	: Not available
Viscosity, kinematic	: 0.265 – 1.729 mm ² /s
Viscosity, dynamic	: 0.146 – 1.63 mPa·s
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle specific surface area	: Not applicable

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9.2. Data relevant with regard to physical hazard classes

Additional information : Evaporation rate: 0.72

9.3. Further safety characteristics

No additional information available

SECTION 10: Stability and reactivity

Chemical stability : Stable at ambient temperature and under normal conditions of use.
Conditions to avoid : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid static electricity discharges.
Hazardous decomposition products : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.
Incompatible materials : Strong acids. Oxidizing agent.
Possibility of hazardous reactions : Static-accumulating.
Reactivity : Flammable liquid and vapour.
Handling temperature : No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : May be harmful if swallowed.
Acute toxicity (dermal) : Harmful in contact with skin
Acute toxicity (inhalation) : Harmful if inhaled.

Mixed Xylenes (Not applicable)	
LD50 oral rat	3523 mg/kg bodyweight
LD50 dermal rabbit	12126 mg/kg bodyweight
LC50 Inhalation - Rat	27124 mg/m ³
Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg (Source: JAPAN_GHS)
LD50 oral	3500 mg/kg
LD50 dermal rat	15354 mg/kg
LD50 dermal rabbit	15400 mg/kg (Source: JAPAN_GHS)
LD50 dermal	15400 mg/kg
LC50 Inhalation - Rat	17.4 mg/l/4h
LC50 Inhalation - Rat [ppm]	4000 ppm Source: ECHA, Harmonized classification of EU CLP
LC50 Inhalation - Rat (Dust/Mist)	27.5 mg/l/4h
LC50 Inhalation - Rat (Vapours)	18.96 mg/l/4h
ATE BR (oral)	3500 mg/kg bodyweight
ATE BR (dermal)	15400 mg/kg bodyweight
ATE BR (gases)	3000 ppmv/4h
ATE BR (vapours)	17.4 mg/l/4h
ATE BR (dust,mist)	1.5 mg/l/4h
Xylenes (o-, m-, p- isomers) (1330-20-7)	
LD50 oral rat	3500 mg/kg (Source: JAPAN_GHS)
ATE BR (oral)	3500 mg/kg bodyweight
ATE BR (dermal)	1100 mg/kg bodyweight
ATE BR (dust,mist)	1.5 mg/l/4h

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Skin corrosion/irritation	: Causes skin irritation. pH: Not applicable
Serious eye damage/irritation	: Causes serious eye irritation. pH: Not applicable
Respiratory or skin sensitisation	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available
Additional information	: For this substance a chemical safety assessment has been carried out

Ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity

Xylenes (o-, m-, p- isomers) (1330-20-7)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not available
STOT-single exposure	: May cause respiratory irritation.

Xylenes (o-, m-, p- isomers) (1330-20-7)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure	: May cause damage to organs (hearing organs) through prolonged or repeated exposure.
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Ethylbenzene (100-41-4)	
NOAEL (oral, rat, 90 days)	75 mg/kg bw/day
STOT-repeated exposure	May cause damage to organs (hearing organs) through prolonged or repeated exposure.

Xylenes (o-, m-, p- isomers) (1330-20-7)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard	: May be fatal if swallowed and enters airways.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

Mixed Xylenes (Not applicable)	
Hydrocarbon	Yes
Viscosity, kinematic	0.265 – 1.729 mm ² /s

Ethylbenzene (100-41-4)	
Viscosity, kinematic	0.641 mm ² /s

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

Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation. Inhalation may cause irritation, cough, shortness of breath.
Symptoms/effects after skin contact	: Harmful in contact with skin. Causes skin irritation. Intensive skin contact, may cause skin problems (contact dermatitis).
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed. May be fatal if swallowed and enters airways. Aspiration of this material may cause chemical pneumonia. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.
Chronic symptoms	: May cause damage to organs (hearing organs) through prolonged or repeated exposure.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.

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Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects

Mixed Xylenes (Not applicable)	
LC50 - Fish [1]	2.6 mg/l
EC50 - Crustacea [1]	3.82 mg/l (Daphnia)
ErC50 algae	3.2 mg/l
NOEC (chronic)	0.44 mg/l

Ethylbenzene (100-41-4)	
LC50 - Fish [1]	11 – 18 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
EC50 - Crustacea [1]	1.8 – 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Other aquatic organisms [1]	2.2 mg/l waterflea
LC50 - Fish [2]	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: EPA)
EC50 72h - Algae [1]	4.6 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 72h - Algae [2]	2.6 – 11.3 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	> 438 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 96h - Algae [2]	1.7 – 7.6 mg/l (Species: Pseudokirchneriella subcapitata [static])
LOEC (chronic)	1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (chronic)	0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC chronic crustacea	0.956 mg/l

Xylenes (o-, m-, p- isomers) (1330-20-7)	
LC50 - Fish [1]	13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	3.82 mg/l (Exposure time: 48 h - Species: water flea)

12.2. Persistence and degradability

Mixed Xylenes (Not applicable)	
Persistence and degradability	Readily biodegradable. not persistent.

Ethylbenzene (100-41-4)	
Persistence and degradability	Not rapidly degradable

Xylenes (o-, m-, p- isomers) (1330-20-7)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

Mixed Xylenes (Not applicable)	
Partition coefficient n-octanol/water (Log Pow)	3.12 – 3.2
Bioaccumulative potential	not bioaccumulable.

Ethylbenzene (100-41-4)	
BCF - Fish [1]	(15 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	3.6 (at 20 °C (at pH 7.84)

Xylenes (o-, m-, p- isomers) (1330-20-7)	
BCF - Fish [1]	0.6 – 15

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Hazardous to the ozone layer : Not available
Effect on the ozone layer : No additional information available.




SECTION 13: Disposal considerations

Waste treatment methods : Disposal must be done according to official regulations. Consult an expert on waste disposal or treatment.
Product/Packaging disposal recommendations : Dispose of this material and its container at hazardous or special waste collection point.
Additional information : Avoid release to the environment.

SECTION 14: Transport information

14.1 National and international Regulations

In accordance with IMDG / IATA / ANTT

ANTT	IMDG	IATA
UN number		
3295	3295	3295
UN Proper Shipping Name		
HYDROCARBONS, LIQUID, N.O.S. (XYLENES)	HYDROCARBONS, LIQUID, N.O.S. (XYLENES)	Hydrocarbons, liquid, n.o.s. (Xylenes)
Primary Risk class / subclass		
3	3	3
Subsidiary Risk class / subclass		
Not applicable	Not applicable	Not applicable
Hazard labels		
3	3	3
		
Risk Identification Number		
30	Not applicable	Not applicable
Packing group		
III	III	III
Environmental hazards		
No	No Marine pollutant: Yes	No
Maritime transport in bulk according to MARPOL 73/78 and IBC Code		
Not applicable	Product name: Xylenes/ethylbenzenes (10% or more) mixture Pollution category: Y Ship type: 2	No

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14.2 Other information

This information does not intend to convey all specific regulatory or operational requirements/information with regards to the product, therefore it cannot be considered exhaustive. Consult ANTT, IMO and ICAO instructions before transporting the product. The carrier is responsible for following all applicable laws, regulations and rules related to the product transportation.

SECTION 15: Regulatory information

15.1. National regulations

No additional information available

SECTION 16: Other information

Sources of Key data : Safety Data Sheet.

Safety Data Sheet (SDS), Brazil - Braskem

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It warns that the handling of any chemical substance requires the previous knowledge of its hazards for the user. It is up to the user of the product company providing this SDS to and promote the training of its employees about possible risks come upon of the product. The information contained herein is not absolute, but only general information on the use of the chemical and indication of safety and security measures.