



Centre Anti-Poison pour le Québec: (800) 463-5060

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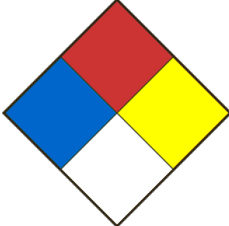
## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

|  |                                    |   |   |
|--|------------------------------------|---|---|
| Product Identifier<br>XYLENES (ISOMERS MIX + ETHYLBENZENE)   |                                    | Product Use<br>Laboratory use               |   |
| Chemical formula<br>C <sub>8</sub> H <sub>10</sub>   |                                    | Product code<br>XR-0166 ; XP-0166           | Molar weight<br>106,17                    |
| Chemical name / Commercial name / Synonymous<br>Xylene mixture of isomers, Xylol, Dimethylbenzène, Xylène technique, o-xylene+m-xylene+p-xylene+ethylbenzene |                                    |   |   |
| Supplier's name<br>Laboratoire MAT   |                                    | Address-Street<br>610, Adanac Street        |   |
| City<br>Québec   |                                    | Province<br>Québec                          |   |
| Postal code<br>G1C 7B7   | Internet<br>www.labmat.com         | Phone number<br>418-660-8666 / 800-890-8666 |   |
| Emergency phone  | CANUTEC: 613-996-6666              |   | CENTRE ANTI-POISON DU QUÉBEC 800-463-5060 |
| Date SDS<br>4/12/2019  | SDS Prepared by<br>Laboratoire MAT |   | E-Mail<br>labmat@labmat.com               |

## SECTION 02 - HAZARDS IDENTIFICATION

|                                     |   |
|-------------------------------------|---|
| <b>Classification WHIMS / GHS</b>   | <p>Flammable liquids category 3</p> <p>Acute toxicity - Inhalation category 4</p> <p>Skin corrosion/irritation - Skin irritation category 2</p> <p>Specific Target Organ Toxicity - Repeated exposure category 2</p> <p>Aspiration hazard category 1</p> <p>Specific target organ toxicity - Single exposure category 3</p> <p>Acute toxicity - Dermal category 4</p> <p>Serious eye damage/ Eye irritation category 2A</p>   |
| <b>Signal Word</b>                  | <p>DANGER</p>   |
| <b>Hazards statements (H)</b>       | <p>H226 Flammable liquid and vapour.</p> <p>H315 Causes skin irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H335 May cause respiratory irritation.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H312 Harmful in contact with skin.</p> <p>H319 Causes serious eye irritation.</p>  |
| <b>Precautionary statements (P)</b> | <p>P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground/bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical/ventilating/lighting equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P261 Avoid breathing dust / fume / gas / mist / vapours / spray.</p> <p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P332 + P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P362 + P364 Take off contaminated clothing and wash it before reuse.</p> <p>P403 + P235 Store in a well-ventilated place. Keep cool.</p> <p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.</p> <p>P370 + P378 In case of fire: Use water spray or alcohol-resistant foam, or dry powder or carbon dioxide for extinction.</p> <p>P260 Do not breathe dust / fume / gas / mist / vapours / spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</p> <p>P314 Get medical advice/attention if you feel unwell.</p> <p>P331 Do NOT induce vomiting.</p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337 + P313 If eye irritation persists: Get medical advice/attention.</p> |

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| <b>PICTOGRAMS</b>   |  |
| <b>Other dangers</b>  | NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)           |
|  | <b>Health</b> 2<br><b>Fire</b> 3<br><b>Reactivity</b> 0<br><b>Special danger</b> |

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

| Ingrédients (Dénomination chimique / synonymes) | Numéro CAS et tout identificateur unique | Concentration (%) |
|---|--|-------------------|
| Xylènes (Mélange d'isomères)<br>Éthylbenzène    | 1330-20-7<br>100-41-4                    | 75-100<br>≤25%    |

## SECTION 04 - FIRST AID MEASURES

|  |  |
|--|--|
| <b>Eye contact</b>   | Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention. |
| <b>Skin contact</b>  | Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.                          |
| <b>Inhalation</b>  | If breathed in, move person into fresh air. If breathing is difficult, give oxygen. Consult a physician.   |
| <b>Ingestion</b>   | If the person is conscious, give water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.     |
| <b>Most important symptoms and effects (acute and delayed)</b>         | Ref. section 11.   |
| <b>Immediate medical attention and special treatment, if necessary</b> | In case of medical consultation, keep this sheet available.  |
| <b>General advice</b>  | Show this safety data sheet to the doctor in attendance.   |

## SECTION 05 - FIREFIGHTING MEASURES

|  |  |
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| <b>Flammability</b>  | Yes  |
| <b>Ignition conditions</b>   | Strong oxidizing agents, heat, sparks and open flame.  |
| <b>Suitable extinguishing media</b>                                  | Carbon dioxide, dry chemical powder and polymer foam. The water spray will then be used to cool nearby containers.   |
| <b>Unsuitable extinguishing media</b>                                | The water could be ineffective. Do not use a heavy water stream.   |
| <b>Hazardous combustion / decomposition products</b>                 | Hazardous decomposition products formed under fire conditions. Carbon oxides.  |
| <b>Special fire and explosion hazards</b>                            | Vapors may travel a great distance and ignite on sources of ignition such as heaters, electrical appliances, cigarettes, sparks, etc. Containers exposed to fire may explode. Vapors may form flammable or explosive mixtures with air. Contact with strong oxidizing agents may cause fire. Xylenes react explosively with 1,3-dichloro-5,5-dimethylhydantoin. May react violently with incompatible products (Ref Section 10). |
| <b>Special protective equipment and precautions for firefighters</b> | Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.  |

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

|   |   |
|---|---|
| <b>Methods and materials for containment and cleaning up / Personal precautions, protective equipment</b> | Evacuate personnel to safe areas. Cut off all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Ensure a good ventilation of the premises. When handling, wear appropriate safety equipment. Use a respirator as needed. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let product enter drains. |
|---|---|

## SECTION 07 - HANDLING AND STORAGE

|                                    |  |
|------------------------------------|--|
| <b>Conditions for safe storage</b> | Store in a cool, dry place. Keep container tightly closed and store away from strong oxidants, heat, sparks and open flame. Use venting and electrical equipment that is grounded and does not produce ignition sources (sparks). Protect from the sun's rays. Store in a well-ventilated area.  |
| <b>Methods of handling</b>         | Bottle in the glass only.NOTE: may attack some plastics. Always open containers slowly to allow any excess pressure to vent. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14) |

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

| Components   | CAS-No.   | Value | Control parameters                 | Basis   |
|--------------|---|-------|------------------------------------|---|
| Xylene       | 1330-20-7   | STEL  | 150.000000 ppm<br>651.000000 mg/m3 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)   |
|              |   | TWA   | 100.000000 ppm<br>434.000000 mg/m3 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)   |
|              |   | TWAEV | 100.000000 ppm<br>434.000000 mg/m3 | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
|              |   | STEV  | 150.000000 ppm<br>651.000000 mg/m3 | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
|              |   | TWA   | 100.000000 ppm                     | Canada. British Columbia OEL  |
|              |   | STEL  | 150.000000 ppm                     | Canada. British Columbia OEL  |
|              |   | TWA   | 100.000000 ppm                     | USA. ACGIH Threshold Limit Values (TLV)   |
|              |   | STEL  | 150.000000 ppm                     | USA. ACGIH Threshold Limit Values (TLV)   |
|              |   | TWA   | 100.000000 ppm                     | USA. ACGIH Threshold Limit Values (TLV)   |
|              |   | STEL  | 150.000000 ppm                     | USA. ACGIH Threshold Limit Values (TLV)   |
|              |   | TWA   | 100 ppm                            | USA. ACGIH Threshold Limit Values (TLV)   |
|              |   | STEL  | 150 ppm                            | USA. ACGIH Threshold Limit Values (TLV)   |
| Ethylbenzene | 100-41-4  | TWA   | 100.000000 ppm<br>434.000000 mg/m3 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)   |
|              |   | STEL  | 125.000000 ppm<br>543.000000 mg/m3 | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)   |
|              |   | TWA   | 20.000000 ppm                      | Canada. British Columbia OEL  |
| Remarks      | IARC '2B' applies to substances deemed possibly carcinogenic to humans. |       |                                    |   |
|              |   | STEL  | 125.000000 ppm                     | Canada. British Columbia OEL  |
|              | IARC '2B' applies to substances deemed possibly carcinogenic to humans. |       |                                    |   |
|              |   | TWAEV | 100.000000 ppm<br>434.000000 mg/m3 | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
|              |   | STEV  | 125.000000 ppm<br>543.000000 mg/m3 | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
|              |   | TWA   | 100 ppm<br>434 mg/m3               | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)   |
|              |   | STEL  | 125 ppm<br>543 mg/m3               | Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)   |
|              |   | TWA   | 20 ppm                             | Canada. British Columbia OEL  |
|              | IARC '2B' applies to substances deemed possibly carcinogenic to humans. |       |                                    |   |
|              |   | STEV  | 125 ppm<br>543 mg/m3               | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
|              |   | TWAEV | 100 ppm<br>434 mg/m3               | Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants |
|              |   | TWA   | 20.000000 ppm                      | USA. ACGIH Threshold Limit Values (TLV)   |

|  |  |      |                   |   |
|--|--|------|-------------------|---|
|  |  | STEL | 125.000000<br>ppm | USA. ACGIH Threshold Limit Values (TLV) |
|  |  | TWA  | 20 ppm            | USA. ACGIH Threshold Limit Values (TLV) |

|                            |  |
|----------------------------|--|
| <b>Data source</b>         | Sigma-Aldrich (Millipore Sigma)  |
| <b>Ventilation</b>         | Fan.   |
| <b>Respiratory</b>         | If work under the hood is not possible, or if the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.   |
| <b>Gloves</b>              | Handle with gloves.  |
| <b>Eyes</b>                | Safety goggles with safety shutters. Face shield (20 cm minimum).  |
| <b>Shoes</b>               | Safety shoes.  |
| <b>Clothing</b>            | Labcoat. 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. |
| <b>Engineering control</b> | Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.   |

## SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

|  |  |
|--|--|
| <b>Physical state</b>                        | Liquid.  |
| <b>Appearance</b>                            | Liquide incolore.  |
| <b>Odour</b>                                 | Aromatique.  |
| <b>Odour threshold</b>                       | Data not available                                       |
| <b>pH</b>                                    | Donnée non disponible.                                   |
| <b>Melting point / Freezing point</b>        | -41-0°C  |
| <b>Initial boiling point</b>                 | 137-140°C  |
| <b>Boiling range</b>                         | Data not available                                       |
| <b>Flash point</b>                           | 25°C   |
| <b>Evaporation rate</b>                      | 0.76 (n-butyl acetate=1)%                                |
| <b>Flammability</b>                          | Yes  |
| <b>Lower flammable / Explosive limit</b>     | 0.9%   |
| <b>Upper flammable / Explosive limit</b>     | 7%   |
| <b>Vapour pressure</b>                       | 1.1kPa (8.3mmHg)@ 15 mmHg                                |
| <b>Vapour density</b>                        | 3.66 (air=1).  |
| <b>Relative density</b>                      | 0.86-0.87g/ml  |
| <b>Solubility</b>                            | Insoluble dans l'eau. Miscible avec l'alcool et l'éther. |
| <b>Partition coefficient water/n-octanol</b> | Data not available                                       |
| <b>Auto-ignition temperature</b>             | 464°C  |
| <b>Decomposition temperature</b>             | Data not available                                       |
| <b>Viscosity</b>                             | Data not available                                       |

## SECTION 10 - STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Reactivity</b>  | Non-reactive under normal conditions.  |
| <b>Chemical stability</b>  | Stable under recommended storage conditions.   |
| <b>Possibility of hazardous reactions</b>  | Vapours may form explosive mixture with air. May react violently with incompatible substances.   |
| <b>Conditions of instability (Including sensitivity to shock / static discharge / vibration)</b> | Avoid excessive heat. Heat, flames, sparks. Avoid the accumulation of static electricity.  |
| <b>Incompatible material</b>   | Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates), 1,3-dichloro-5,5-dimethylhydantoin, halogens, molten sulfur, heat and moisture. Attacks rubber and some plastics. |
| <b>Hazardous decomposition products</b>  | Hazardous decomposition products formed under fire conditions. Toxic vapors of carbon monoxide and dioxide.  |

## SECTION 11 - TOXICOLOGICAL INFORMATION

## XYLENES (ISOMERS MIX + ETHYLBENZENE)

|  |  |
|--|--|
| <b>Routes of exposure</b>                        | Ingestion, inhalation, skin and eyes.  |
| <b>Acute exposition effects / symptoms:</b>      | By exposure route below.   |
| <b>- Eyes</b>                                    | Severe irritation and may result in inflammation of the conjunctiva.   |
| <b>- Skin</b>                                    | Irritation and dermatitis.   |
| <b>- Inhalation</b>                              | Irritation of the mucous membranes and respiratory tract. Narcotic effects, chest pain, cough, dyspnea, headache, dizziness, drowsiness, watery eyes, erythema, paresthesia, ataxia, nausea and vomiting. Intense and prolonged exposure may result in liver and kidney failure, pulmonary edema followed by respiratory arrest that may result in death.  |
| <b>Acute toxicity (Ingestion)</b>                | Irritation of the mucous membranes. Narcotic effects, liver damage, cramps, diarrhea, headache, dizziness, confusion, drowsiness, erythema, salivation, paresthesia, ataxia, seizures, nausea and vomiting. NOTE: Aspiration of the product into the lungs may cause chemical pneumonitis, hemorrhagic pulmonary edema resulting in rapid death from cardiac arrest, respiratory paralysis and asphyxia. |
| <b>Chronic exposure effects / symptoms</b>       | Burning sensation, dermatitis, conjunctivitis, narcotic effects, liver lesions (enlargement), kidneys and lungs, chest pain, cough, dyspnoea, laryngitis, headache, dizziness, drowsiness, confusion, irritability, tearing, erythema, balance and memory problems, anemia, weakness, weight loss and loss of appetite, nausea and vomiting.   |
| <b>DL50 (specify species and route of entry)</b> | LD50 Oral - Rat - 3 523 - 4 000 mg/kg. LD50 Dermal - Rabbit - > 5000 mg / kg   |
| <b>CL50 (specify species and route of entry)</b> | LC50 Inhalation - Rat - 4h - 6700 ppm.   |

## SECTION 12 - ECOLOGICAL INFORMATION

|   |    |
|---|----|
| <b>Available ecological information</b> | No |
|---|----|

## SECTION 13 - DISPOSAL CONSIDERATIONS

|                               |  |
|-------------------------------|--|
| <b>Waste Disposal Method</b>  | Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company. |
| <b>Contaminated Packaging</b> | Dispose of as unused product.  |

## SECTION 14 - TRANSPORT INFORMATION

|                                   |                     |
|-----------------------------------|---------------------|
| <b>UN Number</b>                  | 1307                |
| <b>UN Proper shipping name</b>    | XYLÈNES             |
| <b>Transport hazard class(es)</b> | 3 Flammable liquids |
| <b>Packing group</b>              | III                 |
| <b>Limited quantity index</b>     | 5L                  |
| <b>ERAP Index</b>                 | -                   |
| <b>Special precautions</b>        | -                   |

## SECTION 15 - REGULATORY INFORMATION

|                     |  |
|---------------------|--|
| <b>WHIMS CANADA</b> | Flammable liquids category 3<br>Acute toxicity - Inhalation category 4<br>Skin corrosion/irritation - Skin irritation category 2<br>Specific Target Organ Toxicity - Repeated exposure category 2<br>Aspiration hazard category 1<br>Specific target organ toxicity - Single exposure category 3<br>Acute toxicity - Dermal category 4<br>Serious eye damage/ Eye irritation category 2A |
|---------------------|--|

## SECTION 16 - OTHER INFORMATION

### Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

**Last Update: 4/12/2019**