Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product Name
N.8

Contains m-Xylene, p-Xylene, o-Xylene
Contains p-Xylene, o-Xylene, m-Xylene, Ethylbenzene

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended Use
Viscometer and/or density measurement equipment calibration and performance verification reference standard

Uses advised against
No information available

1.3. Details of the supplier of the safety data sheet
Supplier
Cannon Instrument Company
2139 High Tech Rd.
State College, PA 16803-1733
TEL: (814) 353-8000; (800) 676-6232
For further information, please contact
No information available.

1.4. Emergency telephone number
Emergency Telephone Number
(800) 255-3924 Domestic CHEM-TEL Inc.
+1 (813) 248-0585 Overseas CHEM-TEL Inc. (Please Call Collect)

Europe
112

Section 2. Hazards identification

2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>REGULATION (EC) No 1272/2008</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>Aspiration Toxicity</td>
<td>Category 1</td>
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<tr>
<td>Acute Dermal Toxicity</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute Inhalation Toxicity - Vapors</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Physical Hazards
Flammable liquids
Category 3

2.2. Label Elements
Signal Word: Danger

Hazard Statements:
- H304 - May be fatal if swallowed and enters airways
- H312 - Harmful in contact with skin
- H315 - Causes skin irritation
- H332 - Harmful if inhaled
- H226 - Flammable liquid and vapor

Precautionary Statements - EU (§28, 1272/2008):
- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P370 + P378 - In case of fire: Use carbon dioxide, alcohol-resistant foam, or water spray for extinction
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P331 - Do NOT induce vomiting

2.3. Other information:
Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Contact with eyes may cause irritation. May cause respiratory tract irritation. Prolonged skin contact may defat the skin and produce dermatitis.

Section 3. Composition/information on ingredients

3.1. Substances:
Not applicable

3.2. Mixtures:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC-No</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>EU - GHS Substance Classification</th>
<th>REACH No.</th>
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</thead>
<tbody>
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<td>m-Xylene</td>
<td>203-576-3</td>
<td>108-38-3</td>
<td>30-60</td>
<td>Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Acute Tox. 4 (H332)</td>
<td>No data available</td>
</tr>
<tr>
<td>p-Xylene</td>
<td>203-396-5</td>
<td>106-42-3</td>
<td>15-40</td>
<td>Skin Irrit. 2 (H315) Acute Tox. 4 (H312) Flam. Liq. 3 (H226)</td>
<td>No data available</td>
</tr>
<tr>
<td>o-Xylene</td>
<td>202-422-2</td>
<td>95-47-6</td>
<td>10-30</td>
<td>Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Flam. Liq. 3 (H226) Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304) Acute Tox. 4 (H332)</td>
<td>No data available</td>
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<tr>
<td>Ethylbenzene</td>
<td>202-849-4</td>
<td>100-41-4</td>
<td>10-30</td>
<td>Flam. Liq. 2 (H225) STOT RE 2 (H373) Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Section 4. First aid measures

4.1. Description of first-aid measures

Eye Contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Obtain medical attention if irritation persists.

Skin Contact
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion
Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention.

Inhalation
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur. Artificial respiration and/or oxygen may be necessary. If breathing has stopped, contact emergency medical services immediately.

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

Most Important Symptoms/Effects

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician
Aspiration hazard.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Extinguishing media which must not be used for safety reasons
No information available.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases
During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide, Carbon dioxide.

5.3. Advice for firefighters

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus and full protective gear.
Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up
Dike to collect large liquid spills. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Clean contaminated surface thoroughly.

6.4. Reference to other sections
See Section 12 for additional information.

---

Section 7. Handling and storage

7.1. Precautions for Safe Handling

**Handling**
Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

**Hygiene Measures**
Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

7.3. Specific end use(s)
**Exposure Scenario**
No information available.

**Other Guidelines**
No information available.

---

Section 8. Exposure controls/personal protection

8.1. Control parameters

**Exposure Limits**

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<th>Chemical Name</th>
<th>EU</th>
<th>Austria</th>
<th>Belgium</th>
<th>Cyprus</th>
<th>Denmark</th>
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</thead>
<tbody>
<tr>
<td>m-Xylene</td>
<td>S*</td>
<td>TWA 50 ppm</td>
<td>STEL: 100 ppm</td>
<td>TWA: 50 ppm</td>
<td>TWA: 25 ppm</td>
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<tr>
<td>108-38-3</td>
<td></td>
<td>TWA 221 mg/m³</td>
<td>STEL: 442 mg/m³</td>
<td>TWA: 221 mg/m³</td>
<td>TWA: 109 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 100 ppm</td>
<td>TWA: 100 ppm</td>
<td>TWA: 100 ppm</td>
<td>Skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 217 mg/m³</td>
<td>STEL: 442 mg/m³</td>
<td>STEL: 442 mg/m³</td>
<td></td>
</tr>
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<td>p-Xylene</td>
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<td>TWA: 50 ppm</td>
<td>TWA: 25 ppm</td>
</tr>
<tr>
<td>106-42-3</td>
<td></td>
<td>TWA 221 mg/m³</td>
<td>STEL: 442 mg/m³</td>
<td>TWA: 221 mg/m³</td>
<td>TWA: 109 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td>TWA 100 ppm</td>
<td>TWA: 100 ppm</td>
<td>TWA: 100 ppm</td>
<td>Skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 217 mg/m³</td>
<td>STEL: 442 mg/m³</td>
<td>STEL: 442 mg/m³</td>
<td></td>
</tr>
<tr>
<td>o-Xylene</td>
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<td>TWA: 50 ppm</td>
<td>TWA: 25 ppm</td>
</tr>
<tr>
<td>95-47-6</td>
<td></td>
<td>TWA 221 mg/m³</td>
<td>STEL: 442 mg/m³</td>
<td>TWA: 221 mg/m³</td>
<td>TWA: 109 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 100 ppm</td>
<td>TWA: 100 ppm</td>
<td>TWA: 100 ppm</td>
<td>Skin</td>
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<td>STEL: 442 mg/m³</td>
<td>STEL: 442 mg/m³</td>
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</tr>
<tr>
<td>Ethylbenzene</td>
<td>S*</td>
<td>TWA 100 ppm</td>
<td>STEL: 200 ppm</td>
<td>TWA: 100 ppm</td>
<td>TWA: 50 ppm</td>
</tr>
<tr>
<td>100-41-4</td>
<td></td>
<td>TWA 442 mg/m³</td>
<td>TWA: 880 mg/m³</td>
<td>TWA: 442 mg/m³</td>
<td>Skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 125 ppm</td>
<td>TWA: 125 ppm</td>
<td>STEL: 200 ppm</td>
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<td>STEL: 217 mg/m³</td>
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</tr>
<tr>
<td>Chemical Name</td>
<td>Finland</td>
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<td>Germany</td>
<td>Gibraltar</td>
<td>Greece</td>
</tr>
<tr>
<td>-----------------</td>
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</tbody>
</table>
| m-Xylene 108-38-3 | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 440 mg/m³  
Skin | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 442 mg/m³  
Skin | TWA: 100 ppm  
STEL: 440 mg/m³  
Ceiling / Peak: 200 ppm  
STEL: 880 mg/m³  
Skin | TWA: 100 ppm  
STEL: 442 mg/m³  
STEL: 880 mg/m³  
Skin | TWA: 100 ppm  
STEL: 150 ppm  
STEL: 650 mg/m³  
Skin |
| p-Xylene 106-42-3 | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 440 mg/m³  
Skin | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 442 mg/m³  
Skin | TWA: 100 ppm  
STEL: 440 mg/m³  
Ceiling / Peak: 200 ppm  
STEL: 880 mg/m³  
Skin | TWA: 100 ppm  
STEL: 442 mg/m³  
STEL: 880 mg/m³  
Skin | TWA: 100 ppm  
STEL: 150 ppm  
STEL: 650 mg/m³  
Skin |
| O-Xylene 95-47-6 | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 440 mg/m³  
Skin | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 442 mg/m³  
Skin | TWA: 100 ppm  
STEL: 440 mg/m³  
Ceiling / Peak: 200 ppm  
STEL: 880 mg/m³  
Skin | TWA: 100 ppm  
STEL: 442 mg/m³  
STEL: 880 mg/m³  
Skin | TWA: 100 ppm  
STEL: 150 ppm  
STEL: 650 mg/m³  
Skin |
| Ethylbenzene 100-41-4 | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 880 mg/m³  
Skin | TWA: 20 ppm  
STEL: 100 ppm  
STEL: 442 mg/m³  
Skin | TWA: 50 ppm  
STEL: 200 ppm  
STEL: 450 mg/m³  
Skin | TWA: 100 ppm  
STEL: 200 ppm  
STEL: 450 mg/m³  
Skin | TWA: 100 ppm  
STEL: 125 ppm  
STEL: 545 mg/m³  
Skin |

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<thead>
<tr>
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<th>Italy</th>
<th>Lithuania</th>
<th>Luxembourg</th>
<th>Malta</th>
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</table>
| m-Xylene 108-38-3 | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 440 mg/m³  
Skin | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 442 mg/m³  
Skin | TWA: 100 ppm  
STEL: 200 ppm  
STEL: 450 mg/m³  
Skin | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 440 mg/m³  
Skin | TWA: 100 ppm  
STEL: 100 ppm  
STEL: 440 mg/m³  
Skin |
| p-Xylene 106-42-3 | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 440 mg/m³  
Skin | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 442 mg/m³  
Skin | TWA: 100 ppm  
STEL: 200 ppm  
STEL: 450 mg/m³  
Skin | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 440 mg/m³  
Skin | TWA: 100 ppm  
STEL: 100 ppm  
STEL: 440 mg/m³  
Skin |
| O-Xylene 95-47-6 | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 440 mg/m³  
Skin | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 442 mg/m³  
Skin | TWA: 100 ppm  
STEL: 200 ppm  
STEL: 450 mg/m³  
Skin | TWA: 50 ppm  
STEL: 100 ppm  
STEL: 440 mg/m³  
Skin | TWA: 100 ppm  
STEL: 100 ppm  
STEL: 440 mg/m³  
Skin |
| Ethylbenzene 100-41-4 | TWA: 100 ppm  
STEL: 100 ppm  
STEL: 884 mg/m³  | TWA: 100 ppm  
STEL: 100 ppm  
STEL: 884 mg/m³  | TWA: 100 ppm  
STEL: 100 ppm  
STEL: 884 mg/m³  | TWA: 100 ppm  
STEL: 100 ppm  
STEL: 884 mg/m³  | TWA: 100 ppm  
STEL: 100 ppm  
STEL: 884 mg/m³  |
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<thead>
<tr>
<th>Chemical Name</th>
<th>The Netherlands</th>
<th>Norway</th>
<th>Poland</th>
<th>Portugal</th>
<th>Spain</th>
</tr>
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<tbody>
<tr>
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<td>STEL: 200 ppm TWA: 100 ppm Sk</td>
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<td>STEL: 200 ppm TWA: 221 ppm Sk</td>
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<td>p-Xylene 106-42-3</td>
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<td>STEL: 884 mg/m³ TWA: 210 ppm Sk</td>
<td>STEL: 200 ppm TWA: 108 mg/m³ Sk</td>
<td>STEL: 200 ppm TWA: 221 ppm Sk</td>
<td>STEL: 200 ppm TWA: 221 ppm Sk</td>
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<tr>
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<td>STEL: 884 mg/m³ TWA: 210 ppm Sk</td>
<td>STEL: 200 ppm TWA: 108 mg/m³ Sk</td>
<td>STEL: 200 ppm TWA: 221 ppm Sk</td>
<td>STEL: 200 ppm TWA: 221 ppm Sk</td>
</tr>
</tbody>
</table>

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>European Union</th>
<th>Austria</th>
<th>Bulgaria</th>
<th>Croatia</th>
<th>Czech Republic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylbenzene 100-41-4</td>
<td>2000 mg/g Creatinine at the end of exposure or end of shift</td>
<td>Mandelic acid and Phenylglyoxylic acid - total Possible significant absorption through the skin</td>
<td>1.50 mg/L blood during exposure</td>
<td>2 ppm final exhaled air about 16 hours after completion of the work</td>
<td>1100 µmol/mmol Creatinine urine end of shift</td>
</tr>
</tbody>
</table>

Mandelic acid
<table>
<thead>
<tr>
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<th>Denmark</th>
<th>Finland</th>
<th>France</th>
<th>Germany</th>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>108-38-3</td>
<td>1500 mg/g creatinine urine end of shift Methylhippuric acid</td>
<td>1.5 mg/L whole blood end of shift Xylene all isomers 2000 mg/L urine end of shift Methylhippuric(tolur-)-acid all isomers</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>p-Xylene</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>106-42-3</td>
<td>1500 mg/g creatinine urine end of shift Methylhippuric acid</td>
<td>1.5 mg/L whole blood end of shift Xylene all isomers 2000 mg/L urine end of shift Methylhippuric(tolur-)-acid all isomers</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>o-Xylene</td>
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</tr>
<tr>
<td>95-47-6</td>
<td>1500 mg/g creatinine urine end of shift Methylhippuric acid</td>
<td>1.5 mg/L whole blood end of shift Xylene all isomers 2000 mg/L urine end of shift Methylhippuric(tolur-)-acid all isomers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>5.2 mmol/L urine end of shift at end of workweek or exposure period</td>
<td>1500 mg/g creatinine urine end of shift at end of workweek Mandelic acid Non-specific (observed after the exposure to other substances)</td>
<td>300 mg/g urine end of shift Mandelic acid plus Phenylglyoxylic acid</td>
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<td></td>
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<table>
<thead>
<tr>
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<th>Luxembourg</th>
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<tbody>
<tr>
<td>m-Xylene</td>
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<td></td>
<td>(ACGIH:) 1.5 g/g Creatinine urine end of shift Methylhippuric acids</td>
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<td></td>
</tr>
<tr>
<td>108-38-3</td>
<td></td>
<td></td>
<td>(ACGIH:) 1.5 g/g Creatinine urine end of shift Methylhippuric acids</td>
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<td></td>
</tr>
<tr>
<td>p-Xylene</td>
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<td>(ACGIH:) 1.5 g/g Creatinine urine end of shift Methylhippuric acids</td>
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<tr>
<td>o-Xylene</td>
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<td>(ACGIH:) 1.5 g/g Creatinine urine end of shift Methylhippuric acids</td>
<td></td>
<td></td>
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<tr>
<td>Ethylbenzene</td>
<td></td>
<td></td>
<td>1500 mg/g Creatinine urine at end of workweek, end of shift Mandelic acid</td>
<td>0.7 g/g creatinine urine end of shift at end of workweek Sum of mandelic acid and phenylglyoxylic acid nonspecific, semi-quantitative</td>
<td>(ACGIH:) 0.15 g/g Creatinine urine end of shift at end of workweek Sum of Mandelic acid and Phenylglyoxylic acid Nonspecific, semi-quantitative</td>
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<tr>
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<th>Netherlands</th>
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<th>Romania</th>
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<td>3 g/L urine end of shift Methylhippuric acid</td>
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<td>108-38-3</td>
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<td></td>
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<tr>
<td>p-Xylene</td>
<td>3 g/L urine end of shift Methylhippuric acid</td>
<td></td>
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<td></td>
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<tr>
<td>106-42-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>o-Xylene</td>
<td>3 g/L urine end of shift Methylhippuric acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>1.5 g/g Creatinine urine at end of workweek</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-41-4</td>
<td></td>
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<table>
<thead>
<tr>
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<th>Spain</th>
<th>Switzerland</th>
<th>United Kingdom</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Xylene</td>
<td>1.5 mg/L blood end of exposure or work shift Xylene all isomers 2000 mg/L urine end of exposure or work shift Methylhippuric acid</td>
<td>1 g/g Creatinine urine end of shift Methylhippuric acids 2</td>
<td>1.5 g/g creatinine urine end of shift, and after several shifts (for long-term exposures) Methylhippuric acid 1.5 mg/L whole blood end</td>
<td></td>
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### Section 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks / Method</th>
</tr>
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<tbody>
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<td>Physical State</td>
<td>Liquid</td>
<td>Hydrocarbon-like</td>
</tr>
<tr>
<td>Odor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colorless</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>-41 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>139 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>29 °C</td>
<td>Closed cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No data available 0.87</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble in water</td>
<td>None known</td>
</tr>
</tbody>
</table>

#### 8.2. Exposure controls

**Engineering Measures**
- Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

- **Eye Protection**
  - Safety glasses with side-shields. If splashes are likely to occur, wear: Goggles.

- **Skin and Body Protection**
  - Wear fire/flame resistant/retardant clothing.

- **Hand Protection**
  - Impervious gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

- **Respiratory Protection**
  - When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Environmental Exposure Controls**
- No information available.
Solubility in other solvents: Soluble in solvents. None known
Partition coefficient: n-octanol/water: No data available. None known
Autoignition Temperature: No data available. None known
Decomposition Temperature: No data available. None known
Viscosity: 0.6 cSt @ 40°C. None known

Explosive Properties: No information available
Oxidizing Properties: No information available

9.2. Other information
VOC Content (%): No information available

Section 10. Stability and reactivity

10.1. Reactivity
Not reactive under normal conditions.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid
Ignition sources - heat, sparks and open flames.

10.5. Incompatible materials
Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products
Carbon oxides.

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity
Product Information
Inhalation: Harmful by inhalation. May cause irritation of respiratory tract. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Eye Contact: Contact with eyes may cause irritation.

Skin Contact: Harmful in contact with skin. Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

Ingestion: Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system depression.

Acute Toxicity: 100% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Xylene</td>
<td>5 g/kg (Rat)</td>
<td>14100 µL/kg (Rabbit)</td>
<td>4740 ppm (Rat) 4 h = 4550 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>p-Xylene</td>
<td>4029 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>3500 mg/kg (Rat)</td>
<td>15400 mg/kg (Rabbit)</td>
<td>17.4 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>o-Xylene</td>
<td>3608 mg/kg (Rat)</td>
<td>14100 mg/kg (Rabbit)</td>
<td>4330 ppm (Rat) 6 h</td>
</tr>
</tbody>
</table>

Sensitization: No information available.
Mutagenic Effects: No information available.
Carcinogenic Effects  
No information available.

Reproductive Toxicity  
No information available.

Developmental Toxicity  
No information available.

STOT - single exposure  
See listed target organs below.

STOT - repeated exposure  
See listed target organs below.

Target Organ Effects  
Central nervous system (CNS). Liver. Kidney. Respiratory system. Cardiovascular system. Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Neurological Effects  
May be fatal if swallowed and enters airways.

### Section 12. Ecological information

#### 12.1. Toxicity

Ecotoxicity Effects  
Toxic to aquatic organisms.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Xylene</td>
<td>EC50 72 h: = 11 mg/L (Pseudokirchneriella subcapitata) EC50 72 h: = 4.9 mg/L static (Pseudokirchneriella subcapitata)</td>
<td>LC50 96 h: 13.1 - 16.5 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 13.5 - 17.3 mg/L (Oncorhynchus mykiss) LC50 96 h: 14.3 - 18 mg/L flow-through (Pimephales promelas) LC50 96 h: 2.661 - 4.093 mg/L static (Oncorhynchus mykiss) LC50 96 h: 23.53 - 29.97 mg/L static (Pimephales promelas) LC50 96 h: 30.26 - 40.75 mg/L static (Poecilia reticulata) LC50 96 h: 7.111 - 9.591 mg/L static (Lepomis macrochirus) LC50 96 h: 12.9 mg/L semi-static (Poecilia reticulata) LC50 96 h: 13.4 mg/L flow-through (Pimephales promelas) LC50 96 h: 19 mg/L (Lepomis macrochirus) LC50 96 h: 780 mg/L/semi-static (Cyprinus carpio) LC50 96 h: 8.4 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: &gt; 780 mg/L (Cyprinus carpio)</td>
<td>EC50 = 5.7 mg/L 30 min</td>
<td>EC50 48 h: 2.81 - 5.0 mg/L Static (Daphnia magna) LC50 48 h: 0.6 mg/L (Gammarus lacustris) EC50 48 h: 3.82 mg/L (water flea)</td>
</tr>
<tr>
<td>p-Xylene</td>
<td>EC50 3 h: = 105.1 mg/L (Chlorella vulgaris) EC50 72 h: = 11 mg/L (Pseudokirchneriella subcapitata) EC50 72 h: = 3.2 mg/L static (Pseudokirchneriella subcapitata)</td>
<td>LC50 96 h: 13.1 - 16.5 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 13.5 - 17.3 mg/L (Oncorhynchus mykiss) LC50 96 h: 2.661 - 4.093 mg/L static (Oncorhynchus mykiss) LC50 96 h: 23.53 - 29.97 mg/L static (Pimephales promelas) LC50 96 h: 30.26 - 40.75 mg/L static (Poecilia reticulata) LC50 96 h: 7.2 - 9.9 mg/L static (Pimephales promelas) LC50 96 h: 7.711 - 9.591 mg/L static (Lepomis macrochirus) LC50 96 h: 13.4 mg/L flow-through (Pimephales promelas) LC50 96 h: 19 mg/L</td>
<td>EC50 = 5.7 mg/L 30 min</td>
<td>EC50 48 h: 3.55 - 6.31 mg/L Static (Daphnia magna) LC50 48 h: 0.6 mg/L (Gammarus lacustris) EC50 48 h: 3.82 mg/L (water flea)</td>
</tr>
</tbody>
</table>
### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-Xylene</td>
<td>3.2</td>
</tr>
<tr>
<td>p-Xylene</td>
<td>3.15</td>
</tr>
<tr>
<td>o-Xylene</td>
<td>3.12</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>3.2</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.
12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

---

Section 13. Disposal considerations

13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>Waste from Residues / Unused Products</th>
<th>Dispose of in accordance with local regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contaminated Packaging</td>
<td>Empty containers should be taken to an approved waste handling site for recycling or disposal.</td>
</tr>
</tbody>
</table>

Section 14. Transport information

Note: The information provided below may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional requirements and mode-specific, material-specific, or quantity-specific shipping requirements.

IMDG/IMO

<table>
<thead>
<tr>
<th>14.1. UN-Number</th>
<th>UN1307</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. Proper Shipping Name</td>
<td>Xylenes</td>
</tr>
<tr>
<td>14.3. Hazard Class</td>
<td>3</td>
</tr>
<tr>
<td>14.4. Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Description</td>
<td>UN1307, Xylenes, 3, III, (29°C c.c.)</td>
</tr>
<tr>
<td>14.5. Marine Pollutant</td>
<td>None</td>
</tr>
<tr>
<td>EmS No.</td>
<td>F-E, S-D</td>
</tr>
<tr>
<td>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

RID

<table>
<thead>
<tr>
<th>14.1. UN-Number</th>
<th>UN1307</th>
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<tbody>
<tr>
<td>14.2. Proper Shipping Name</td>
<td>Xylenes</td>
</tr>
<tr>
<td>14.3. Hazard Class</td>
<td>3</td>
</tr>
<tr>
<td>14.4. Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Description</td>
<td>UN1307, Xylenes, 3, III</td>
</tr>
<tr>
<td>14.5. Environmental hazard</td>
<td>None</td>
</tr>
<tr>
<td>14.6. Special Provisions</td>
<td>None</td>
</tr>
<tr>
<td>Classification Code</td>
<td>F1</td>
</tr>
</tbody>
</table>

ADR

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
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<td>Xylenes</td>
</tr>
<tr>
<td>14.3. Hazard Class</td>
<td>3</td>
</tr>
<tr>
<td>ADR/RID-Labels</td>
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</tr>
<tr>
<td>14.4. Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Description</td>
<td>UN1307, Xylenes, 3, III, (D/E)</td>
</tr>
<tr>
<td>14.5. Environmental hazard</td>
<td>None</td>
</tr>
<tr>
<td>14.6. Special Provisions</td>
<td>None</td>
</tr>
<tr>
<td>Classification Code</td>
<td>F1</td>
</tr>
</tbody>
</table>

ICAO

<table>
<thead>
<tr>
<th>14.1. UN-Number</th>
<th>UN1307</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. Proper shipping name</td>
<td>Xylenes</td>
</tr>
<tr>
<td>14.3. Hazard Class</td>
<td>3</td>
</tr>
<tr>
<td>14.4. Packing Group</td>
<td>III</td>
</tr>
<tr>
<td>Description</td>
<td>UN1307, Xylenes, 3, III</td>
</tr>
<tr>
<td>14.5. Environmental hazard</td>
<td>None</td>
</tr>
</tbody>
</table>
IATA
14.1. UN-Number UN1307
14.2. Proper Shipping Name Xylenes
14.3. Hazard Class 3
14.4. Packing Group III
   Description UN1307, Xylenes, 3, III
14.5. Environmental hazard None
   ERG Code 3L

Section 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

TSCA -
EINECS/ELINCS Complies
DSL/NDSL Complies
PICCS Complies
ENCS Complies
IECSC Complies
AICS Complies
KECL Complies

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment
No information available

Section 16. Other information

Full text of H-Statements referred to under sections 2 and 3
H225 - Highly flammable liquid and vapor
H332 - Harmful if inhaled
H315 - Causes skin irritation
H312 - Harmful in contact with skin
H226 - Flammable liquid and vapor

Key literature references and sources for data
www.ChemADVISOR.com/

Issuing Date 24-Apr-2014
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Revision Note (M)SDS sections updated: 3, 8.


General Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other
material or in any process, unless specified in the text.

End of Safety Data Sheet