SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued 11.11.2013

1.1. Product identifier
Product name Xylene
Chemical name Xylene
Synonyms Xylol, dimethyl benzene, xylenol
REACH Reg No. 01-2119488216-32-0000
CAS no. 1330-20-7
EC no. 215-535-7
Index no. 601-022-00-9
Article no. 13000000

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/preparation For the preparation of paints and as a solvent. General purpose cleaner.

1.3. Details of the supplier of the safety data sheet
Manufacturer
Company name Fred Holmberg & Co AB
Office address Geijersgatan 8
Postal address Box 60056
Postcode S-216 10
City Limhamn
Country Sweden
Tel +46 (0)40 15 79 20
Fax +46 (0)40 16 22 95
E-mail info@holmberg.se
Website http://www.holmberg.se/en/

1.4. Emergency telephone number
Emergency telephone 112 (Europe)

SECTION 2: Hazards identification

2.1. Classification of substance or mixture
Classification according to
67/548/EEC or 1999/45/EC Xi; R38
Xn; R20/21
R10

Classification according to
Regulation (EC) No 1272/2008 Flam. Liq. 3; H226;
[CLP/GHS] Acute tox. 4; H312;
Skin Irrit. 2; H315;
Acute tox. 4; H332;

2.2. Label elements
Hazard Pictograms (CLP)
Signal word  Danger
Hazard statements  H226 Flammable liquid and vapour.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H332 Harmful if inhaled.
Precautionary statements  P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
P233 Keep container tightly closed.  
P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P331 Do NOT induce vomiting.  
P403 + P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards
Other hazards  Not known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Identification</th>
<th>Classification</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylene</td>
<td>CAS no.: 1330-20-7</td>
<td>R10</td>
<td>75 - 90 %</td>
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<td></td>
<td>EC no.: 215-535-7</td>
<td>Xn; R20/21</td>
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<td></td>
<td>Index no.: 601-022-00-9</td>
<td>Xi; R38</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Flam. Liq. 3; H226</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute tox. 4; H332</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute tox. 4; H312</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Irrit. 2; H315</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Note : C</td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>CAS no.: 100-41-4</td>
<td>F; R11</td>
<td>10 - 25 %</td>
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<tr>
<td></td>
<td>EC no.: 202-849-4</td>
<td>Xn; R20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Index no.: 601-023-00-4</td>
<td>Flam. Liq. 2; H225</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Synonyms: Ethylbenzene</td>
<td>Acute tox. 4; H332</td>
<td></td>
</tr>
</tbody>
</table>

Column headings  
CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) = European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substances that are not included in the substance list must be translated, if possible). Contents given in; %, %wt/wt, %vol/wt, %vol/vol, mg/m3, ppb, ppm, weight%, vol%  
HH/HF/HE  
T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, E = Explosive, O = Oxidizing, F+ = Extremely flammable, F = Very flammable, N = Environmental hazard

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation  
Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Skin contact  
Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact  
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

Ingestion  
NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do not induce vomiting. Rinse mouth with water. Get medical attention.

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

Information for health personnel  
Treat Symptomatically. Do not give victim anything to drink if he is
4.3. Indication of any immediate medical attention and special treatment needed
Specific details on antidotes  No recommendation given.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media  Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture
Fire and explosion hazards  Solvent vapours may form explosive mixtures with air.
Hazardous combustion products  Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters
Fire fighting procedures  No specific fire fighting procedure given.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal protection measures  Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Ventilate well. Stop leak if possible without risk. Avoid contact with skin and eyes. Do not breathe vapour.

6.2. Environmental precautions
Environmental precautionary measures  Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up
Cleaning method  Dam and absorb spillages with sand, earth or other non-combustible material.

6.4. Reference to other sections
Other instructions  No recommendation given.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Handling  Keep away from heat, sparks and open flame. Take precautionary measures against static discharges. Mechanical ventilation may be required.

Protection Safety Measures
Advice on general occupational hygiene  Provide easy access to water supply and eye wash facilities.

7.2. Conditions for safe storage, including any incompatibilities
Storage  Keep away from heat, sparks and open flame. Ground container and transfer equipment to eliminate static electric sparks. Store in a cool and well-ventilated place.

7.3. Specific end use(s)
Specific use(s)  Not entered.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
DNEL / PNEC

Method of testing  Contents
DNEL  Group: Industrial
Exposure route: Inhalation
Exposure frequency: Short term (acute)
Critical Component: Etylbenzen
Value: 289 mg/kg/dag
DNEL Group: Industrial
Exposure route: Inhalation
Exposure frequency: Long term (repeated)
Critical Component: Etylbenzen
Type of effect: Systemic effect
Value: 77 mg/kg/dag

DNEL Group: Industrial
Exposure route: Dermal
Exposure frequency: Long term (repeated)
Critical Component: Etylbenzen
Type of effect: Systemic effect
Value: 180 mg/kg/dag

DNEL Group: Consumer
Exposure route: Inhalation
Exposure frequency: Long term (repeated)
Critical Component: Etylbenzen
Type of effect: Systemic effect
Value: 14,8 mg/kg/dag

DNEL Group: Consumer
Exposure route: Dermal
Exposure frequency: Long term (repeated)
Critical Component: Etylbenzen
Type of effect: Systemic effect
Value: 108 mg/kg/dag

DNEL Group: Consumer
Exposure route: Oral
Exposure frequency: Long term (repeated)
Critical Component: Etylbenzen
Type of effect: Systemic effect
Value: 1,6 mg/kg/dag

DNEL Group: Industrial
Exposure route: Inhalation
Exposure frequency: Short term (acute)
Critical Component: xylene
Value: 442 mg/kg/dag

DNEL Group: Industrial
Exposure route: Inhalation
Exposure frequency: Long term (repeated)
Critical Component: xylene
Type of effect: Systemic effect
Value: 221 mg/kg/dag

DNEL Group: Industrial
Exposure route: Dermal
Exposure frequency: Long term (repeated)
Critical Component: xylene
Type of effect: Systemic effect
Value: 3182 mg/kg/dag

DNEL Group: Consumer
Exposure route: Inhalation
Exposure frequency: Short term (acute)
Critical Component: xylene
Value: 260 mg/kg/dag

DNEL Group: Consumer
Exposure route: Inhalation
Exposure frequency: Long term (repeated)
Critical Component: xylene
Type of effect: Systemic effect
**DNEL**

**Group:** Consumer  
**Exposure route:** Dermal  
**Exposure frequency:** Long term (repeated)  
**Critical Component:** xylene  
**Type of effect:** Systemic effect  
**Value:** 65.3 mg/kg/dag

**DNEL**

**Group:** Consumer  
**Exposure route:** Oral  
**Exposure frequency:** Long term (repeated)  
**Critical Component:** xylene  
**Type of effect:** Systemic effect  
**Value:** 1872 mg/kg/dag

**Exposure guidelines**

**Country of origin:** Sverige  
**Limit value type:** NGV 200 mg/m³  
**OEL Short Term Value:** 450 mg/m³  
**Source:** Nationella hygieniska gränsvärden, AFS 2005:17

**Other Information**

Ovanstående NGV resp. KTV gäller både xylene och etylbenzen

### 8.2. Exposure controls

**Occupational exposure limits**

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. Protective gloves and goggles are recommended. Provide eyewash, quick drench.

**Safety signs**

[Safety icons]

**Respiratory protection**

Respiratory protection must be used if air contamination exceeds acceptable level. Use respiratory equipment with gas filter, type A2.

**Hand protection**

Hand protection  
Use protective gloves. Chemical resistant gloves required for prolonged or repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended.

**Eye / face protection**

Eye protection  
Use safety goggles or face shield in case of splash risk.

**Skin protection**

Skin protection (except hands)  
Wear appropriate clothing to prevent any possibility of skin contact.

**Hygiene / Environmental**

Specific hygiene measures  
Wash hands after contact.

### SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Fluid.</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless.</td>
</tr>
<tr>
<td>Odour</td>
<td>Aromatic.</td>
</tr>
<tr>
<td>Comments, pH (as supplied)</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Melting point/melting range</td>
<td>Value: &lt; -48 °C</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>Value: 136-145 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Value: 27 °C</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Value: 13.5</td>
</tr>
<tr>
<td>Explosion limit</td>
<td>Value: 1-7.1 %</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Value: 1 kPa</td>
</tr>
</tbody>
</table>

**Test temperature:** 20 °C
Vapour density: Value: 3.7
Specific gravity: Value: 0.870 kg/m³; Test temperature: 20 °C
Partition coefficient: n-octanol/water: Value: 3.15
Spontaneous combustability: Value: > 432-530 °C
Viscosity: Value: < 0.90 mPas; Method of testing: Kinematisk; Test temperature: 25 °C

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity: Heating may cause a fire.

10.2. Chemical stability
Stability: Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions: Not known.

10.4. Conditions to avoid
Conditions to avoid: Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials
Materials to avoid: Avoid contact with oxidising agents (e.g. nitric acid, peroxides and chromates). Strong acids.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological Information:
Other toxicological data: Acute Toxicity (Oral LD50): mg/kg (oral rat) > 2000
                      Acute Toxicity (Inhalation LC50): mg/l (vapours) (4h) > 20
                      Acute Toxicity (Dermal LD50): mg/kg Rabbit > 2000

Toxicological data for substances
Potential acute effects
Inhalation: In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Icke klassificerad som aspirationstoxisk (Not classified as asp. tox.)
Skin contact: Prolonged or frequent contact may cause redness, itching, eczema and skin cracking. Defats the skin.
Eye contact: May irritate and cause redness and pain.
Ingestion: Ingestion of large amounts may cause unconsciousness. However, ingestion may cause nausea, headache, dizziness and intoxication. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea. May cause irritation to the mouth and throat.

Delayed effects / repeated exposure
Sensitisation: Not known.
Chronic effects: None known.
Carcinogenic, Mutagenic or Reprotoxic
Carcinogenicity: None.
Mutagenicity: Not known.
Teratogenic properties: Suspected of damaging the unborn child
Reproductive toxicity: Not known.

SECTION 12: Ecological information

12.1. Toxicity
Acute aquatic, fish
- Value: 2 mg/l
- Method of testing: LC50
- Fish, species: Roccus saxatilis
- Duration: 96h

Acute aquatic, algae
- Value: > 3,2 mg/l
- Method of testing: IC50
- Algae, species: Selenastrum Capricornum
- Duration: 72h

Acute aquatic, Daphnia
- Value: 8,5 mg/l
- Method of testing: EC50
- Daphnia, species: Daphnia magna
- Duration: 48h

12.2. Persistence and degradability
Persistence and degradability: Lättnedbrytbar av biologiska organismer.

Chemical oxygen demand (COD)
- Value: 5
- Method of testing: COD

Biological oxygen demand (BOD)
- Value: 0,55
- Method of testing: BOD

12.3. Bioaccumulative potential
Bioaccumulative potential: Will not bio-accumulate.

Bioconcentration factor (BCF)
- Value: 22
- Method of testing: BCF

12.4. Mobility in soil
Mobility: The product is insoluble in water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment
PBT assessment results: This substance is not classified as PBT or vPvB.

12.6. Other adverse effects
Other adverse effects / Remarks: None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Specify the appropriate methods of disposal
- Confirm disposal procedures with environmental engineer and local regulations.
- Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Liquid components can be disposed of by incineration.

Product classified as hazardous waste: Yes
Packaging classified as hazardous waste: Yes

SECTION 14: Transport information

14.1. UN number
- ADR: 1307
- RID: 1307
- IMDG: 1307
- ICAO/IATA: 1307

14.2. UN proper shipping name
- ADR: XYLENES
14.3. Transport hazard class(es)
ADR 3
Hazard no. 30
RID 3
ADN 33
IMDG 3
ICAO/IATA 3

14.4. Packing group
ADR III
RID III
IMDG III
ICAO/IATA III

14.5. Environmental hazards
Comment Not relevant.

14.6. Special precautions for user
EmS F-E, S-D

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information
EC no. 215-535-7

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Legislation and regulations Dangerous Substance Directive 67/548/EEC.

15.2. Chemical safety assessment

SECTION 16: Other information

Hazard symbol

R-phrases R10 Flammable.
R38 Irritating to skin.
R20/22 Harmful by inhalation and if swallowed.
R38 Irritating to skin.

S-phrases S7 Keep container tightly closed.
S16 Keep away from sources of ignition - No smoking.

Classification according to Regulation (EC) No 1272/2008 Flam. Liq. 3; H226; Acute tox. 4; H312; Skin Irrit. 2; H315;
| List of relevant R-phrases (under headings 2 and 3). | Acute tox. 4; H332;  
| R38 Irritating to skin.  
| R11 Highly flammable.  
| R10 Flammable.  
| R20/21 Harmful by inhalation and in contact with skin.  
| R20 Harmful by inhalation.  

| List of relevant H-phrases (Section 2 and 3). | H332 Harmful if inhaled.  
| H312 Harmful in contact with skin.  
| H225 Highly flammable liquid and vapour.  
| H226 Flammable liquid and vapour.  
| H315 Causes skin irritation.  

| Responsible for safety data sheet | Fred Holmberg & Co AB |