SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: o-xylene
   CAS: 95-47-6
   EC: 202-422-2
   Index: 601-022-00-9
   REACH: 01-2119485822-30-XXXX
   Formula: C₆H₄(CH₃)₂
   Molecular weight: 106.17

1.2 Relevant identified uses of the substance or mixture and uses advised against:
   Relevant uses: Chemical sample for use in laboratories. For professional user/industrial user only.
   Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:
   Scientific & Chemical Supplies Limited
   Carlton House, Livingstone Road
   WV14 0QZ Bilston - England
   Phone.: +44 (0) 1902 402402 - Fax: +44 (0) 1902 402343
   customerservices@scichem.com
   www.scichem.com

1.4 Emergency telephone number: +44 (0) 7919 258 784

SECTION 2: HAZARDS IDENTIFICATION **

2.1 Classification of the substance or mixture:
   CLP Regulation (EC) No 1272/2008:
   Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
   Acute Tox. 4: Acute toxicity, Category 4, H312+H332
   Flam. Liq. 3: Flammable liquids, Category 3, H226
   Skin Irrit. 2: Skin irritation, Category 2, H315

2.2 Label elements:
   CLP Regulation (EC) No 1272/2008:
   Warning
   
   Hazard statements:
   Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled
   Flam. Liq. 3: H226 - Flammable liquid and vapour
   Skin Irrit. 2: H315 - Causes skin irritation

   Precautionary statements:
   P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking
   P280: Wear protective gloves/protective clothing/eye protection/face protection
   P302+P352: IF ON SKIN: Wash with plenty of water
   P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
   P370+P378: In case of fire: Use ABC powder extinguisher to extinguish
   P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively

2.3 Other hazards:
   Product fails to meet PBT/vPvB criteria

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:
   Chemical description: Organic compounds
1-2 Dimethylbenzene

Safety data sheet
According to 1907/2006/EC (REACH), 2015/830/EU

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Components:
In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Chemical name/Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 95-47-6</td>
<td>o-xylene</td>
<td>ATP CLP00</td>
</tr>
<tr>
<td>EC: 202-422-2</td>
<td>Regulation 1272/2008</td>
<td></td>
</tr>
<tr>
<td>Index: 601-022-99-9</td>
<td>Acute Tox. 4: H312+H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Warning</td>
<td>80 - &lt;100 %</td>
</tr>
</tbody>
</table>

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

3.2 Mixture:
Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:
The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:
Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:
Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:
Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:
Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:
Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:
Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:
If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:
As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:
Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit, ...) in accordance with Directive 89/654/EC.

Additional provisions:
Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

- CONTINUED ON NEXT PAGE -
SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:
Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:
This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and material for containment and cleaning up:
It is recommended:
Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:
See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:
A.- Precautions for safe manipulation
Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.
B.- Technical recommendations for the prevention of fires and explosions
Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks, …) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137 / The Dangerous Substances and Explosive Atmospheres Regulations 2002, 2002 No. 2776). Consult section 10 for conditions and materials that should be avoided.
C.- Technical recommendations to prevent ergonomic and toxicological risks
Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.
D.- Technical recommendations to prevent environmental risks
It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:
A.- Technical measures for storage
Store in a cool, dry, well-ventilated location
B.- General conditions for storage
Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):
Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:
Substances whose occupational exposure limits have to be monitored in the workplace (EH40/2005 Workplace exposure limits):
There are no occupational exposure limits for the substances contained in the product
DNEL (Workers):
### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

<table>
<thead>
<tr>
<th>Identification</th>
<th>Short exposure</th>
<th>Long exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Systemic</td>
<td>Local</td>
</tr>
<tr>
<td>( o-\text{xylene} )</td>
<td>Oral</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>CAS: 95-47-6</td>
<td>Dermal</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>EC: 202-422-2</td>
<td>Inhalation</td>
<td>442 mg/m³</td>
</tr>
</tbody>
</table>

**DNEL (General population):**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Short exposure</th>
<th>Long exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Systemic</td>
<td>Local</td>
</tr>
<tr>
<td>( o-\text{xylene} )</td>
<td>Oral</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>CAS: 95-47-6</td>
<td>Dermal</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>EC: 202-422-2</td>
<td>Inhalation</td>
<td>260 mg/m³</td>
</tr>
</tbody>
</table>

**PNEC:**

<table>
<thead>
<tr>
<th>Identification</th>
<th>STP</th>
<th>Fresh water</th>
<th>Marine water</th>
<th>Sediment (Fresh water)</th>
<th>Sediment (Marine water)</th>
</tr>
</thead>
<tbody>
<tr>
<td>( o-\text{xylene} )</td>
<td>5 mg/L</td>
<td>0.25 mg/L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS: 95-47-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC: 202-422-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 8.2 Exposure controls:

**A. General security and hygiene measures in the work place**

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,….) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B. Respiratory protection**

**Pictogram** | **PPE** | **Labelling** | **CEN Standard** | **Remarks**
--- | --- | --- | --- | ---
Mandatory respiratory tract protection | Filter mask for gases and vapours | | EN 405:2001+A1:2009 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

**C. Specific protection for the hands**

**Pictogram** | **PPE** | **Labelling** | **CEN Standard** | **Remarks**
--- | --- | --- | --- | ---
Mandatory hand protection | NON-disposable chemical protective gloves (VB) | | EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009 | The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.

**D. Ocular and facial protection**

**Pictogram** | **PPE** | **Labelling** | **CEN Standard** | **Remarks**
--- | --- | --- | --- | ---
Mandatory face protection | Face shield | | EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2012 | Clean daily and disinfect periodically according to the manufacturer’s instructions. Use if there is a risk of splashing.

**E. Body protection**

**Pictogram** | **PPE** | **Labelling** | **CEN Standard** | **Remarks**
--- | --- | --- | --- | ---
## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>PPE</th>
<th>Labelling</th>
<th>CEN Standard</th>
<th>Remarks</th>
</tr>
</thead>
</table>

### F. Additional emergency measures

<table>
<thead>
<tr>
<th>Emergency measure</th>
<th>Standards</th>
<th>Emergency measure</th>
<th>Standards</th>
</tr>
</thead>
</table>

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

- **V.O.C. (Supply):** 100 % weight
- **V.O.C. density at 20 ºC:** 880.5 kg/m³ (880.5 g/L)
- **Average carbon number:** 8
- **Average molecular weight:** 106.2 g/mol

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

For complete information see the product datasheet.

**Appearance:**

- **Physical state at 20 ºC:** Liquid
- **Appearance:** Not available
- **Colour:** Colourless
- **Odour:** Aromatic
- **Odour threshold:** Non-applicable *

**Volatility:**

- **Boiling point at atmospheric pressure:** 144 ºC
- **Vapour pressure at 20 ºC:** 655 Pa
- **Vapour pressure at 50 ºC:** 25.25 (3.37 kPa)
- **Evaporation rate at 20 ºC:** Non-applicable *

**Product description:**

- **Density at 20 ºC:** 880.5 kg/m³
- **Relative density at 20 ºC:** 0.881
- **Dynamic viscosity at 20 ºC:** 0.8 cP
- **Kinematic viscosity at 20 ºC:** 0.9 cSt
- **Kinematic viscosity at 40 ºC:** Non-applicable *
- **Concentration:** Non-applicable *
- **pH:** Non-applicable *
- **Vapour density at 20 ºC:** Non-applicable *
- **Partition coefficient n-octanol/water 20 ºC:** Non-applicable *
- **Solubility in water at 20 ºC:** Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.*
### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility properties:</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Melting point/freezing point:</td>
<td>-25 ºC</td>
</tr>
<tr>
<td>Explosive properties:</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Oxidising properties:</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td><strong>Flammability:</strong></td>
<td></td>
</tr>
<tr>
<td>Flash Point:</td>
<td>30 ºC</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Autoignition temperature:</td>
<td>464 ºC</td>
</tr>
<tr>
<td>Lower flammability limit:</td>
<td>1 % Volume</td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td>6 % Volume</td>
</tr>
<tr>
<td><strong>Explosive:</strong></td>
<td></td>
</tr>
<tr>
<td>Lower explosive limit:</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Upper explosive limit:</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td><strong>9.2 Other information:</strong></td>
<td></td>
</tr>
<tr>
<td>Surface tension at 20 ºC:</td>
<td>Non-applicable *</td>
</tr>
<tr>
<td>Refraction index:</td>
<td>Non-applicable *</td>
</tr>
</tbody>
</table>

*Not relevant due to the nature of the product, not providing information property of its hazards.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:
No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

#### 10.2 Chemical stability:
Chemically stable under the conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:
Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid:
Applicable for handling and storage at room temperature:

<table>
<thead>
<tr>
<th>Condition</th>
<th>Shock and friction</th>
<th>Contact with air</th>
<th>Increase in temperature</th>
<th>Sunlight</th>
<th>Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Risk of combustion</td>
<td>Avoid direct impact</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

#### 10.5 Incompatible materials:

<table>
<thead>
<tr>
<th>Material</th>
<th>Acids</th>
<th>Water</th>
<th>Oxidising materials</th>
<th>Combustible materials</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avoid strong acids</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Avoid direct impact</td>
<td>Not applicable</td>
<td>Avoid alkalis or strong bases</td>
</tr>
</tbody>
</table>

#### 10.6 Hazardous decomposition products:
See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects:
The experimental information related to the toxicological properties of the product itself is not available.

#### Dangerous health implications:
In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:
- *Ingestion (acute effect):*
1-2 Dimethylbenzene

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.

- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
- IARC: Non-applicable
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Acute toxicity</th>
<th>Genus</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral</td>
<td>1590 mg/kg</td>
<td>Mouse</td>
</tr>
<tr>
<td>LD50 dermal</td>
<td>1100 mg/kg (ATEi)</td>
<td></td>
</tr>
<tr>
<td>LC50 inhalation</td>
<td>11 mg/L (4 h) (ATEi)</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Acute toxicity</th>
<th>Species</th>
<th>Genus</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50</td>
<td>16.1 mg/L (96 h)</td>
<td>Lepomis macrochirus</td>
<td>Fish</td>
</tr>
<tr>
<td>EC50</td>
<td>1.39 mg/L (48 h)</td>
<td>Daphnia magna</td>
<td>Crustacean</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability:
SECTION 12: ECOLOGICAL INFORMATION (continued)

<table>
<thead>
<tr>
<th>Identification</th>
<th>Degradability</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-xylene</td>
<td>BOD5</td>
<td>Concentration</td>
</tr>
<tr>
<td>CAS: 95-47-6</td>
<td>Non-applicable</td>
<td>36 mg/L</td>
</tr>
<tr>
<td>EC: 202-422-2</td>
<td>COD</td>
<td>Period</td>
</tr>
<tr>
<td></td>
<td>Non-applicable</td>
<td>28 days</td>
</tr>
<tr>
<td></td>
<td>BOD5/COD</td>
<td>% Biodegradable</td>
</tr>
<tr>
<td></td>
<td>0.56</td>
<td>70 %</td>
</tr>
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</table>

12.3 Bioaccumulative potential:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Bioaccumulation potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-xylene</td>
<td>BCF</td>
</tr>
<tr>
<td>CAS: 95-47-6</td>
<td>6</td>
</tr>
<tr>
<td>EC: 202-422-2</td>
<td>Pow Log</td>
</tr>
<tr>
<td></td>
<td>3.12</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil:

<table>
<thead>
<tr>
<th>Identification</th>
<th>Absorption/desorption</th>
<th>Volatility</th>
</tr>
</thead>
<tbody>
<tr>
<td>o-xylene</td>
<td>Koc</td>
<td>Henry</td>
</tr>
<tr>
<td>CAS: 95-47-6</td>
<td>537</td>
<td>Dry soil</td>
</tr>
<tr>
<td>EC: 202-422-2</td>
<td>Conclusion Low</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Surface tension</td>
<td>Moist soil</td>
</tr>
<tr>
<td></td>
<td>2.96E-2 N/m (25 °C)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Waste class (Regulation (EU) No 1357/2014)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 03 05*</td>
<td>organic wastes containing hazardous substances</td>
<td>Dangerous</td>
</tr>
</tbody>
</table>

Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP4 Irritant — skin irritation and eye damage, HP6 Acute Toxicity

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, The Waste Regulations 2011, 2011 No. 988). As under 15.01 (2014/955/EU) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommend disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated


SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2017 and RID 2017:
### SECTION 14: TRANSPORT INFORMATION (continued)

<table>
<thead>
<tr>
<th>14.1</th>
<th>UN number:</th>
<th>UN1307</th>
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<tbody>
<tr>
<td>14.2</td>
<td>UN proper shipping name:</td>
<td>XYLENES</td>
</tr>
<tr>
<td>14.3</td>
<td>Transport hazard class(es):</td>
<td>3</td>
</tr>
<tr>
<td>14.4</td>
<td>Packing group:</td>
<td>III</td>
</tr>
<tr>
<td>14.5</td>
<td>Environmental hazards:</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>14.6</td>
<td>Special precautions for user</td>
<td>Non-applicable</td>
</tr>
<tr>
<td>14.7</td>
<td>Transport in bulk according to Annex II of Marpol and the IBC Code:</td>
<td>Non-applicable</td>
</tr>
</tbody>
</table>

**Transport of dangerous goods by sea:**

With regard to IMDG 38-16:

<table>
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<tr>
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<tr>
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</tbody>
</table>

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2018:

<table>
<thead>
<tr>
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</tr>
</tbody>
</table>

### SECTION 15: REGULATORY INFORMATION

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

- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable
- Article 95, REGULATION (EU) No 528/2012: Non-applicable
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable
- Seveso III:
SECTION 15: REGULATORY INFORMATION (continued)

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Lower-tier requirements</th>
<th>Upper-tier requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>P5c</td>
<td>FLAMMABLE LIQUIDS</td>
<td>5000</td>
<td>50000</td>
</tr>
</tbody>
</table>

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc. . . .):  
Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Relevant instructions for use:

(o-Xylene)

Other legislation:

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI 2009 No 1348  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011, 2011 No. 1885  
Control of Substances Hazardous to Health Regulations 2002 (as amended)  
EH40/2005 Workplace exposure limits  
The Waste Regulations 2011, 2011 No. 988

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Precautionary statements
  
  Texts of the legislative phrases mentioned in section 2:
  
  H226: Flammable liquid and vapour  
  H312+H332: Harmful in contact with skin or if inhaled  
  H315: Causes skin irritation

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled  
Flam. Liq. 3: H226 - Flammable liquid and vapour  
Skin Irrit. 2: H315 - Causes skin irritation

Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu  
http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
COD: Chemical Oxygen Demand  
BOD5: 5-day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
LC50: Lethal Concentration 50  
EC50: Effective concentration 50  
Log-POW: Octanol-water partition coefficient  
Koc: Partition coefficient of organic carbon
1-2 Dimethylbenzene

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

Date of compilation: 26/06/2014  Revised: 16/04/2019  Version: 5 (Replaced 4)