

# SAFETY DATA SHEET.

According to EC No 1907/2006 as amended as at the date of this SDS

## Ortho-xylene

|         |                 |              |                                |
|---------|-----------------|--------------|--------------------------------|
| Version | Revision Date.: | SDS Number:  | Date of last issue: 06.03.2023 |
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

|                        |                                                                       |
|------------------------|-----------------------------------------------------------------------|
| Trade name             | : Ortho-xylene                                                        |
| Product code           | : Q9163, Q9167, Q9304                                                 |
| Registration number EU | : 01-2119485822-30-0007, 01-2119485822-30-0009, 01-2119485822-30-0010 |
| Synonyms               | : 1,2-dimethylbenzene, ortho-Xylene, o-Xylene                         |
| CAS-No.                | : 95-47-6                                                             |

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

|                              |                                                                                                                                                                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Use of the Substance/Mixture | : Raw material for use in the chemical industry.<br>Please refer to section 16 and/or the annexes for the registered uses under REACH.                                                                                                                             |
| Uses advised against         | : This product must not be used in applications other than the above without first seeking the advice of the supplier.<br><br>This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier. |

#### 1.3 Details of the supplier of the safety data sheet

|                               |                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------|
| Manufacturer/Supplier         | : <b>Shell Chemicals Europe B.V.</b><br>PO Box 2334<br>3000 CH Rotterdam<br>Netherlands |
| Telephone                     | : +31 (0)10 441 5137 / +31 (0)10 441 5191                                               |
| Telefax                       | : +31 (0)20 716 8316 / +31 (0)20 713 9230                                               |
| Contact for Safety Data Sheet | : sccmsds@shell.com                                                                     |

#### 1.4 Emergency telephone number

+44 (0) 1235 239 670 (This telephone number is available 24 hours per day, 7 days per week)  
Poisons Centre: 070 245 245

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

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Flammable liquids, Category 3  
Aspiration hazard, Category 1

Acute toxicity, Category 4, Dermal  
Skin irritation, Category 2  
Eye irritation, Category 2  
Acute toxicity, Category 4, Inhalation  
Specific target organ toxicity - single exposure, Category 3, Respiratory Tract  
Long-term (chronic) aquatic hazard, Category 3

H226: Flammable liquid and vapour.  
H304: May be fatal if swallowed and enters airways.  
H312: Harmful in contact with skin.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
  
H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

PHYSICAL HAZARDS:  
H226 Flammable liquid and vapour.  
HEALTH HAZARDS:  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
ENVIRONMENTAL HAZARDS:  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P243 Take action to prevent static discharges.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.

#### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ .?  
P331 Do NOT induce vomiting.  
P304 + P340 IF INHALED: Remove person to fresh air and

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keep comfortable for breathing.

### Storage:

No precautionary phrases.

### Disposal:

No precautionary phrases.

## 2.3 Other hazards

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Vapours are heavier than air. Vapours may travel across the ground and reach remote ignition sources causing a flashback fire danger.

This material is a static accumulator.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge.

If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

#### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number    | Classification                                                                                                                                                                                           | Concentration<br>(% w/w) |
|---------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| O-xylene      | 95-47-6<br>202-422-2<br>601-022-00-9<br>01-2119485822-30 | Flam. Liq. 3; H226<br>Asp. Tox. 1; H304<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Acute Tox. 4; H332<br>STOT SE 3; H335<br>(Respiratory Tract)<br>Aquatic Chronic 3;<br>H412 | >= 95                    |

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice             | : Not expected to be a health hazard when used under normal conditions.                                                                                                                                                                                                                                                                                                                                                          |
| Protection of first-aiders | : When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.                                                                                                                                                                                                                                                                    |
| If inhaled                 | : Call emergency number for your location / facility.<br>Remove to fresh air. Do not attempt to rescue the victim unless proper respiratory protection is worn. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting, or unresponsive, give 100% oxygen with rescue breathing or Cardio-Pulmonary Resuscitation as required and transport to the nearest medical facility.                       |
| In case of skin contact    | : Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.                                                                                                                                        |
| In case of eye contact     | : Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>Transport to the nearest medical facility for additional treatment.                                                                                                       |
| If swallowed               | : If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing. |

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

- |          |                                                                                                                                                                                                                                                                                                                                 |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms | : Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.<br>Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.<br>Eye irritation signs and symptoms may include a burning sen- |
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sation, redness, swelling, and/or blurred vision.  
Ingestion may result in nausea, vomiting and/or diarrhea.  
If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.  
If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

### 4.3 Indication of any immediate medical attention and special treatment needed

|           |                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Treatment | : Potential for chemical pneumonitis.<br>IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT!<br>Call a doctor or poison control center for guidance.<br>Treat symptomatically.<br>Potential for cardiac sensitisation, particularly in abuse situations. Hypoxia or negative inotropes may enhance these effects. Consider: oxygen therapy.<br>Consider: oxygen therapy. |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                                |                                                                                                                                                                                                                            |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.                                                                                                           |
| Unsuitable extinguishing media | : Do not use direct water jets on the burning product as they could cause a steam explosion and spread of the fire.<br>Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. |

### 5.2 Special hazards arising from the substance or mixture

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specific hazards during fire-fighting | : Clear fire area of all non-emergency personnel.<br>Hazardous combustion products may include:<br>A complex mixture of airborne solid and liquid particulates and gases (smoke).<br>Carbon monoxide.<br>Unidentified organic and inorganic compounds.<br>Flammable vapours may be present even at temperatures below the flash point.<br>The vapour is heavier than air, spreads along the ground and distant ignition is possible.<br>Will float and can be reignited on surface water. |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 5.3 Advice for firefighters

|                              |                                                            |
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| Special protective equipment | : Proper protective equipment including chemical resistant |
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|                                |                                                                                                                                                                                                                                                                                                 |
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| for firefighters               | gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469). |
| Specific extinguishing methods | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                                                                                                                                                                       |
| Further information            | : Keep adjacent containers cool by spraying with water. If possible remove containers from the danger zone. If the fire cannot be extinguished the only course of action is to evacuate immediately.                                                                                            |

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions | :<br>Observe all relevant local and international regulations.<br>Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.<br>Local authorities should be advised if significant spillages cannot be contained.<br>6.1.1 For non emergency personnel:<br>Avoid contact with skin, eyes and clothing.<br>Isolate hazard area and deny entry to unnecessary or unprotected personnel.<br>Do not breathe fumes, vapour.<br>Do not operate electrical equipment.<br>6.1.2 For emergency responders:<br>Avoid contact with skin, eyes and clothing.<br>Isolate hazard area and deny entry to unnecessary or unprotected personnel.<br>Do not breathe fumes, vapour.<br>Do not operate electrical equipment. |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.2 Environmental precautions

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental precautions | : Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Monitor area with combustible gas indicator. |
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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely

Ventilate contaminated area thoroughly.  
If contamination of site occurs remediation may require specialist advice.

### 6.4 Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.,  
For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures : Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.

Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

Ensure that all local regulations regarding handling and storage facilities are followed.

Advice on safe handling : Avoid inhaling vapour and/or mists.

Avoid contact with skin, eyes and clothing.

Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks.

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.

Bulk storage tanks should be diked (bunded).

When using do not eat or drink.

The vapour is heavier than air, spreads along the ground and distant ignition is possible.

Product Transfer : Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. Be aware of han-

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dling operations that may give rise to additional hazards that result from the accumulation of static charges. These include but are not limited to pumping (especially turbulent flow), mixing, filtering, splash filling, cleaning and filling of tanks and containers, sampling, switch loading, gauging, vacuum truck operations, and mechanical movements. These activities may lead to static discharge e.g. spark formation. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$  m/s until fill pipe submerged to twice its diameter, then  $\leq 7$  m/s). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Refer to guidance under Handling section.

Hygiene measures : Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use. Do not ingest. If swallowed, then seek immediate medical assistance.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.

Further information on storage stability : Storage Temperature:  
Ambient.  
Bulk storage tanks should be diked (bunded).  
Locate tanks away from heat and other sources of ignition.  
Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions.  
Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat.  
Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products which are not harmful or toxic to man or to the environment.  
Electrostatic charges will be generated during pumping.  
Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk.  
The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.

Packaging material : Suitable material: For containers, or container linings use mild steel, stainless steel., For container paints, use epoxy paint, zinc silicate paint.  
Unsuitable material: Avoid prolonged contact with natural, butyl or nitrile rubbers.

Container Advice : Do not cut, drill, grind, weld or perform similar operations on or near containers.

### 7.3 Specific end use(s)

Specific use(s) : Please refer to section 16 and/or the annexes for the regis-

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tered uses under REACH.

See additional references that provide safe handling practices for liquids that are determined to be static accumulators: American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practices on Static Electricity).  
IEC/TS 60079-32-1: Electrostatic hazards, guidance

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

| Components | CAS-No.                                                                                                                                                                                                                           | Value type (Form of exposure) | Control parameters   | Basis  |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------|--------|
| O-xylene   | 95-47-6                                                                                                                                                                                                                           | TLV 8 hr                      | 50 ppm<br>221 mg/m3  | BE OEL |
|            | Further information: Absorption of the agent through the skin, the mucous membranes or the eyes makes up an important part of total exposure. This absorption can be the result of direct contact as well as the presence in air. |                               |                      |        |
| O-xylene   |                                                                                                                                                                                                                                   | TLV 15 min                    | 100 ppm<br>442 mg/m3 | BE OEL |
|            | Further information: Absorption of the agent through the skin, the mucous membranes or the eyes makes up an important part of total exposure. This absorption can be the result of direct contact as well as the presence in air. |                               |                      |        |

##### Biological occupational exposure limits

No biological limit allocated.

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects   | Value             |
|----------------|---------|-----------------|----------------------------|-------------------|
| O-xylene       | Workers | Inhalation      | Acute systemic effects     | 442 mg/m3         |
| O-xylene       | Workers | Dermal          | Long-term systemic effects | 3182 mg/kg bw/day |
| O-xylene       | Workers | Inhalation      | Long-term systemic effects | 221 mg/m3         |

##### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value                         |
|----------------|---------------------------|-------------------------------|
| O-xylene       | Water                     | 0,25 mg/l                     |
| O-xylene       | Fresh water sediment      | 14,33 mg/kg dry weight (d.w.) |
| O-xylene       | Soil                      | 2,41 mg/kg dry                |

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|          |                        | weight (d.w.) |
| O-xylene | Sewage treatment plant | 5 mg/l        |

### 8.2 Exposure controls

#### Engineering measures

Read in conjunction with the Exposure Scenario for your specific use contained in the Annex. The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Use sealed systems as far as possible.

Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.

Local exhaust ventilation is recommended.

Firewater monitors and deluge systems are recommended.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Eye washes and showers for emergency use.

#### General Information

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

#### Personal protective equipment

Read in conjunction with the Exposure Scenario for your specific use contained in the Annex. The provided information is made in consideration of the PPE regulation (Regulation (EU) 2016/425) and the CEN European Committee for Standardisation (CEN) standards.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye protection : Wear goggles for use against liquids and gas.  
Wear full face shield if splashes are likely to occur.  
Approved to EU Standard EN166.

Hand protection

Remarks : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide

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suitable chemical protection. Longer term protection: Viton. Incidental contact/Splash protection: Nitrile rubber. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

**Skin and body protection** : Wear chemical resistant gloves/gauntlets and boots. Where risk of splashing, also wear an apron. Wear antistatic and flame-retardant clothing.

**Respiratory protection** : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. If air-filtering respirators are suitable for conditions of use: Select a filter suitable for organic gases and vapours [Type A boiling point > 65°C (149°F)] meeting EN14387.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                              |                      |
|------------------------------|----------------------|
| Physical state               | : Liquid.            |
| Colour                       | : colourless         |
| Odour                        | : aromatic           |
| Odour Threshold              | : Data not available |
| Melting point/freezing point | : -24 °C             |

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Boiling point/boiling range : Typical 145 °C

### Flammability

Flammability (solid, gas) : Data not available

### Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit /  
Upper flammability limit : 7,6 %(V)

Lower explosion limit /  
Lower flammability limit : 1 %(V)

Flash point : 27 - 32 °C  
Method: Abel

Auto-ignition temperature : 463 °C

Decomposition temperature  
Decomposition temperature : No data available

pH : Not applicable

### Viscosity

Viscosity, dynamic : 0,9 mPa.s (20 °C)  
Method: ASTM D445

Viscosity, kinematic : 0,87 mm<sup>2</sup>/s (25 °C)  
Method: ASTM D445

Solubility(ies)  
Water solubility : ca. 0,2 g/l (20 °C)

Partition coefficient: n-  
octanol/water : log Pow: 3,12

Vapour pressure : 0,882 kPa (25 °C)

Relative density : Data not available

Density : 883 - 885 kg/m<sup>3</sup> (15 °C)  
Method: ASTM D4052

Relative vapour density : 3,7

### Particle characteristics

Particle size : Data not available

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### 9.2 Other information

|                      |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Explosive properties | : | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Oxidizing properties | : | Data not available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Evaporation rate     | : | 9,2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Conductivity         | : | Low conductivity: < 100 pS/m, The conductivity of this material makes it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10,000 pS/m., Whether a liquid is nonconductive or semiconductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid |
| Surface tension      | : | Data not available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Molecular weight     | : | 106,16 g/mol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

### 10.2 Chemical stability

No hazardous reaction is expected when handled and stored according to provisions  
Stable under normal conditions of use.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with strong oxidising agents.

### 10.4 Conditions to avoid

Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources.  
  
In certain circumstances product can ignite due to static electricity.

### 10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.

### 10.6 Hazardous decomposition products

Hazardous decomposition products are not expected to form during normal storage.  
Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids,

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liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure : Inhalation is the primary route of exposure although absorption may occur through skin contact or following accidental ingestion.

#### Acute toxicity

##### Components:

##### **O-xylene:**

|                           |                                                                                                                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : LD 50 (Rat, male and female): > 2.000 mg/kg<br>Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)<br>Test substance: Mixed xylenes<br>Remarks: Based on available data, the classification criteria are not met.         |
| Acute inhalation toxicity | : LC 50 (Rat, male): > 20 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: Test(s) equivalent or similar to Directive 67/548/EEC, Annex V, B.2.<br>Test substance: Mixed xylenes<br>Remarks: Harmful if inhaled. |
| Acute dermal toxicity     | : LD 50 (Rabbit, male): > 2.000 mg/kg<br>Method: Literature data<br>Test substance: C8 aromatics<br>Remarks: Harmful in contact with skin.                                                                                       |

#### Skin corrosion/irritation

##### Components:

##### **O-xylene:**

|                |                                                                                                                       |
|----------------|-----------------------------------------------------------------------------------------------------------------------|
| Species        | : Rabbit                                                                                                              |
| Method         | : Tested according to Annex V of Directive 67/548/EEC.                                                                |
| Test substance | : p-Xylene                                                                                                            |
| Remarks        | : Causes skin irritation.<br>Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis. |

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### Serious eye damage/eye irritation

#### Components:

##### **O-xylene:**

|                |   |                                |
|----------------|---|--------------------------------|
| Species        | : | Rabbit                         |
| Method         | : | Literature data                |
| Test substance | : | C8 aromatics                   |
| Remarks        | : | Causes serious eye irritation. |

### Respiratory or skin sensitisation

#### Components:

##### **O-xylene:**

|                |   |                                                                   |
|----------------|---|-------------------------------------------------------------------|
| Species        | : | Mouse                                                             |
| Method         | : | Test(s) equivalent or similar to OECD Test Guideline 429          |
| Test substance | : | Mixed xylenes                                                     |
| Remarks        | : | Based on available data, the classification criteria are not met. |

### Germ cell mutagenicity

#### Components:

##### **O-xylene:**

|                       |   |                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : | Method: Test(s) equivalent or similar to OECD Guideline 471<br>Remarks: Based on available data, the classification criteria are not met.<br><br>Method: Test(s) equivalent or similar to Directive 67/548/EEC, Annex V, B.10<br>Test substance: Mixed xylenes<br>Remarks: Based on available data, the classification criteria are not met.                              |
| Genotoxicity in vivo  | : | Species: Mouse<br>Method: Test(s) equivalent or similar to OECD Test Guideline 474<br>Remarks: Based on available data, the classification criteria are not met.<br><br>Species: Mouse<br>Method: Test(s) equivalent or similar to OECD Test guideline 478<br>Test substance: Mixed xylenes<br>Remarks: Based on available data, the classification criteria are not met. |

|                             |   |                                                               |
|-----------------------------|---|---------------------------------------------------------------|
| Germ cell mutagenicity- As- | : | This product does not meet the criteria for classification in |
|-----------------------------|---|---------------------------------------------------------------|

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assessment      categories 1A/1B.

### Carcinogenicity

#### Components:

##### **O-xylene:**

Species : Rat, male and female  
Application Route : Oral  
Method : Test(s) equivalent or similar to Directive 67/548/EEC, Annex V, B.32  
Test substance : Mixed xylenes  
Remarks : Based on available data, the classification criteria are not met.  
  
Carcinogenicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

| Material | GHS/CLP Carcinogenicity Classification |
|----------|----------------------------------------|
| O-xylene | No carcinogenicity classification.     |

| Material | Other Carcinogenicity Classification                                |
|----------|---------------------------------------------------------------------|
| O-xylene | IARC: Group 3: Not classifiable as to its carcinogenicity to humans |

### Reproductive toxicity

#### Components:

##### **O-xylene:**

Effects on fertility : Species: Rat  
Sex: male and female  
Application Route: Inhalation  
  
Method: Acceptable non-standard method.  
Test substance: Mixed xylenes  
Remarks: Based on available data, the classification criteria are not met.  
  
Reproductive toxicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

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### STOT - single exposure

#### Components:

##### **O-xylene:**

|                 |   |                                                                                                                     |
|-----------------|---|---------------------------------------------------------------------------------------------------------------------|
| Exposure routes | : | Inhalation                                                                                                          |
| Target Organs   | : | Respiratory Tract                                                                                                   |
| Remarks         | : | May cause respiratory irritation.<br>Inhalation of vapours or mists may cause irritation to the respiratory system. |

### STOT - repeated exposure

#### Components:

##### **O-xylene:**

|         |   |                                                                                                                                                                                     |
|---------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks | : | Based on available data, the classification criteria are not met.<br>Central nervous system: repeated exposure affects the nervous system.<br>Effects were seen at high doses only. |
|---------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Repeated dose toxicity

#### Components:

##### **O-xylene:**

|                   |   |                                                          |
|-------------------|---|----------------------------------------------------------|
| Species           | : | Rat, male and female                                     |
| Application Route | : | Oral                                                     |
| Method            | : | Test(s) equivalent or similar to OECD Test Guideline 408 |
| Test substance    | : | Mixed xylenes                                            |
| Target Organs     | : | No specific target organs noted                          |

|                   |   |                                 |
|-------------------|---|---------------------------------|
| Species           | : | Rat, male                       |
| Application Route | : | Inhalation                      |
| Test atmosphere   | : | vapour                          |
| Method            | : | Literature data                 |
| Test substance    | : | Mixed xylenes                   |
| Target Organs     | : | No specific target organs noted |

### Aspiration toxicity

#### Components:

##### **O-xylene:**

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

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### 11.2 Information on other hazards

#### Endocrine disrupting properties

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Further information

##### Product:

Remarks : Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

##### Components:

##### O-xylene:

Remarks : Classifications by other authorities under varying regulatory frameworks may exist.

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### O-xylene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7,6 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Toxic  
LL/EL/IL50 > 1 <= 10 mg/l

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 3,82 mg/l  
aquatic invertebrates  
Exposure time: 48 h  
Method: Literature data.  
Remarks: Toxic  
LL/EL/IL50 > 1 <= 10 mg/l

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- |                                                                        |   |                                                                                                                                                                                                             |
|------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to algae/aquatic plants                                       | : | EC50 (Pseudokirchneriella subcapitata (algae)): 4,7 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Toxic<br>LL/EL/IL50 > 1 <= 10 mg/l                                           |
| Toxicity to microorganisms                                             | : | EC50 (Activated sludge): > 175 mg/l<br>Exposure time: 0,5 h<br>Method: Test(s) equivalent or similar to OECD Guideline 209<br>Remarks: Practically non toxic:<br>LL/EL/IL50 > 100 mg/l                      |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC: > 1,3 mg/l<br>Exposure time: 56 d<br>Species: Oncorhynchus mykiss (rainbow trout)<br>Method: Literature data.<br>Remarks: NOEC/NOEL/EL10 > 1.0 - <= 10 mg/l                                           |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 1,57 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Method: Information given is based on data obtained from similar substances.<br>Remarks: NOEC/NOEL/EL10 > 1.0 - <= 10 mg/l |

### 12.2 Persistence and degradability

#### Components:

#### **O-xylene:**

- |                  |   |                                                                                                                       |
|------------------|---|-----------------------------------------------------------------------------------------------------------------------|
| Biodegradability | : | Biodegradation: 69,67 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301F<br>Remarks: Readily biodegradable. |
|------------------|---|-----------------------------------------------------------------------------------------------------------------------|

Remarks: Not Persistent per IMO criteria.  
International Oil Pollution Compensation (IOPC) Fund definition:  
"A non-persistent oil is oil, which, at the time of shipment, consists of hydrocarbon fractions, (a) at least 50% of which, by volume, distills at a temperature of 340°C (645°F) and (b) at least 95% of which, by volume, distills at a temperature of 370°C (700°F) when tested by the ASTM Method D-86/78 or any subsequent revision thereof."

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

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### 12.5 Results of PBT and vPvB assessment

#### Components:

##### **O-xylene:**

Assessment : The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB..

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Recover or recycle if possible.  
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.  
Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.  
Do not dispose into the environment, in drains or in water courses.  
Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.  
Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Waste, spills or used product is dangerous waste.

Disposal should be in accordance with applicable regional,

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national, and local laws and regulations.  
Local regulations may be more stringent than regional or national requirements and must be complied with.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Contaminated packaging : Drain container thoroughly.  
After draining, vent in a safe place away from sparks and fire.  
Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.  
Send to drum recoverer or metal reclaimer.  
Comply with any local recovery or waste disposal regulations.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

|      |        |
|------|--------|
| ADN  | : 1307 |
| ADR  | : 1307 |
| RID  | : 1307 |
| IMDG | : 1307 |
| IATA | : 1307 |

#### 14.2 UN proper shipping name

|      |                         |
|------|-------------------------|
| ADN  | : XYLENES<br>(o-XYLENE) |
| ADR  | : XYLENES               |
| RID  | : XYLENES               |
| IMDG | : XYLENES               |
| IATA | : XYLENES               |

#### 14.3 Transport hazard class(es)

|      |     |
|------|-----|
| ADN  | : 3 |
| ADR  | : 3 |
| RID  | : 3 |
| IMDG | : 3 |
| IATA | : 3 |

#### 14.4 Packing group

|                     |       |
|---------------------|-------|
| ADN                 |       |
| Packing group       | : III |
| Classification Code | : F1  |

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Hazard Identification Number : 30  
Labels : 3 (N2)  
CDNI Inland Water Waste : NST 8392 Ortho-xylene  
Agreement

### ADR

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

### RID

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

### IMDG

Packing group : III  
Labels : 3

### IATA

Packing group : III  
Labels : 3

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : no.

### RID

Environmentally hazardous : no.

### IMDG

Marine pollutant : no.

## 14.6 Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

## 14.7 Maritime transport in bulk according to IMO instruments

Pollution category : Y  
Ship type : 2  
Product name : Xylenes

**Additional Information** : This product may be transported under nitrogen blanketing. Nitrogen is an odourless and invisible gas. Exposure to nitrogen enriched atmospheres displaces available oxygen which may cause asphyxiation or death. Personnel must observe

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strict safety precautions when involved with a confined space entry.

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### SECTION 15: Regulatory information

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

|                                                                                           |   |                                                                                                                   |
|-------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------|
| REACH - List of substances subject to authorisation (Annex XIV)                           | : | Product is not subject to Authorisation under REACH.                                                              |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : | This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). |

#### Other regulations:

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

#### The components of this product are reported in the following inventories:

|          |   |        |
|----------|---|--------|
| AU AIIC  | : | Listed |
| CA. DSL  | : | Listed |
| CN IECSC | : | Listed |
| JP ENCS  | : | Listed |
| KR KECI  | : | Listed |
| NZ NZIoC | : | Listed |
| PH PICCS | : | Listed |
| US TSCA  | : | Listed |
| TW TCSI  | : | Listed |

#### 15.2 Chemical safety assessment.

A Chemical Safety Assessment has been carried out for this substance.

---

### SECTION 16: Other information

#### Full text of other abbreviations

|        |   |                                             |
|--------|---|---------------------------------------------|
| BE OEL | : | Belgium. Occupational exposure limit values |
|--------|---|---------------------------------------------|

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|                     |   |                           |
|---------------------|---|---------------------------|
| BE OEL / TLV 8 hr   | : | Long term exposure limit  |
| BE OEL / TLV 15 min | : | Short term exposure limit |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Training advice : Provide adequate information, instruction and training for operators.

Other information : For Industry guidance and tools on REACH please visit the CEFIC website at <http://cefic.org/Industry-support>.  
The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.  
A vertical bar (|) in the left margin indicates an amendment from the previous version.  
This product is classified as H304 (May be fatal if swallowed and enters airways). The risk relates to potential for aspiration.

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Sources of key data used to compile the Safety Data Sheet : The risk arising from aspiration hazard is solely related to the physico-chemical properties of the substance. The risk can therefore be controlled by implementing risk management measures tailored to this specific hazard and included within Section 8 of the SDS. An exposure scenario is not presented. The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).

### Classification of the mixture:

|                   |      |
|-------------------|------|
| Flam. Liq. 3      | H226 |
| Asp. Tox. 1       | H304 |
| Acute Tox. 4      | H312 |
| Skin Irrit. 2     | H315 |
| Eye Irrit. 2      | H319 |
| Acute Tox. 4      | H332 |
| STOT SE 3         | H335 |
| Aquatic Chronic 3 | H412 |

### Classification procedure:

On basis of test data.  
Expert judgement and weight of evidence determination.  
Expert judgement and weight of evidence determination.  
Expert judgement and weight of evidence determination.  
Expert judgement and weight of evidence determination.  
Expert judgement and weight of evidence determination.  
Expert judgement and weight of evidence determination.  
Expert judgement and weight of evidence determination.

### Identified Uses according to the Use Descriptor System

#### Uses - Worker

Title : Manufacture of substance  
- Industrial

#### Uses - Worker

Title : Use as an intermediate  
- Industrial

#### Uses - Worker

Title : Distribution of substance  
- Industrial

#### Uses - Worker

Title : Formulation & (re)packing of substances and mixtures  
- Industrial

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### Uses - Worker

Title : Uses in Coatings  
- Industrial

### Uses - Worker

Title : Uses in Coatings  
- Professional

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

BE / EN

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## Ortho-xylene

Version 1.3      Revision Date.: 19.02.2026      SDS Number: 800001007215      Date of last issue: 06.03.2023  
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### Exposure Scenario - Worker

|                         |                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>300000000228</b>     |                                                                                                                                                                                                                                                                                     |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>                                                                                                                                                                                                                                                      |
| <b>Title</b>            | Manufacture of substance- Industrial                                                                                                                                                                                                                                                |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU 3, SU8, SU9<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15<br><b>Environmental Release Categories:</b> ERC1, ERC4, ESVOC SpERC 1.1.v1                                                                             |
| <b>Scope of process</b> | Manufacture of the substance or use as a process chemical or extraction agent. Includes recycling/ recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities. |

| SECTION 2                                                                                                                                                         | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Section 2.1                                                                                                                                                       | Control of Worker Exposure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Product Characteristics                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Physical form of product                                                                                                                                          | Liquid, vapour pressure 0.5 - 10 kPa at STP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Concentration of the Substance in Mixture/Article                                                                                                                 | Covers use of substance/product up to 100% (unless stated differently)..                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| Frequency and Duration of Use                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Covers daily exposures up to 8 hours (unless stated differently).                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Other Operational Conditions affecting Exposure                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Contributing Scenarios                                                                                                                                            | Risk Management Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| General measures (skin irritants).                                                                                                                                | Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.<br>Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying. |  |
| General exposures (closed systems)                                                                                                                                | No other specific measures identified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |

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|                                                                                            |                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General exposures (closed systems)with sample collectionGeneral measures (skin irritants). | No other specific measures identified.                                                                                                                                          |
| General exposures (closed systems)Use in contained batch processes                         | No other specific measures identified.                                                                                                                                          |
| General exposures (open systems)Batch processwith sample collection                        | No other specific measures identified.                                                                                                                                          |
| Process sampling                                                                           | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).<br>, or:<br>Avoid carrying out activities involving exposure for more than 1 hour. |
| Laboratory activities                                                                      | No other specific measures identified.                                                                                                                                          |
| Bulk transfers(open systems)with potential for aerosol generation.                         | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).<br>, or:<br>Avoid carrying out activities involving exposure for more than 1 hour. |
| Bulk transfers(closed systems)                                                             | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).<br>, or:<br>Avoid carrying out activities involving exposure for more than 1 hour. |
| Equipment cleaning and maintenance                                                         | Drain down system prior to equipment opening or maintenance.                                                                                                                    |
| Storage.General measures (skin irritants).                                                 | Store substance within a closed system.<br>No other specific measures identified.                                                                                               |
| <b>Section 2.2</b>                                                                         | <b>Control of Environmental Exposure</b>                                                                                                                                        |
| Substance is a unique structure.                                                           |                                                                                                                                                                                 |
| Readily biodegradable.                                                                     |                                                                                                                                                                                 |
| <b>Amounts Used</b>                                                                        |                                                                                                                                                                                 |
| Fraction of EU tonnage used in region:                                                     | 0,143                                                                                                                                                                           |
| Regional use tonnage (tonnes/year):                                                        | 6,0E+05                                                                                                                                                                         |
| Fraction of Regional tonnage used locally:                                                 | 1                                                                                                                                                                               |
| Annual site tonnage (tonnes/year):                                                         | 6,0E+05                                                                                                                                                                         |
| Maximum daily site tonnage (kg/day):                                                       | 2,0E+06                                                                                                                                                                         |
| <b>Frequency and Duration of Use</b>                                                       |                                                                                                                                                                                 |
| Continuous release.                                                                        |                                                                                                                                                                                 |
| Emission Days (days/year):                                                                 | 300                                                                                                                                                                             |

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|                                                                                                                   |         |
|-------------------------------------------------------------------------------------------------------------------|---------|
| <b>Environmental factors not influenced by risk management</b>                                                    |         |
| Local freshwater dilution factor:                                                                                 | 40      |
| Local marine water dilution factor:                                                                               | 100     |
| <b>Other Operational Conditions affecting Environmental Exposure</b>                                              |         |
| Release fraction to air from process (initial release prior to RMM):                                              | 5,0E-03 |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 3,0E-03 |
| Release fraction to soil from process (initial release prior to RMM):                                             | 1,0E-04 |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |         |
| Common practices vary across sites thus conservative process re-release estimates used.                           |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |         |
| Prevent discharge of undissolved substance to or recover from onsite wastewater.                                  |         |
| Risk from environmental exposure is driven by wastewater treatment plant microbes.                                |         |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    |         |
| Treat air emission to provide a typical removal efficiency of (%)                                                 | 90      |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 93,6    |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0       |
| <b>Organisational measures to prevent/limit release from site</b>                                                 |         |
| Do not apply industrial sludge to natural soils.                                                                  |         |
| Sludge should be incinerated, contained or reclaimed.                                                             |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>                                        |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 93,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 93,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 6,4E+06 |
| Assumed domestic sewage treatment plant flow (m3/d)                                                               | 10.000  |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |         |
| During manufacturing no waste of the substance is generated.                                                      |         |
| <b>Conditions and measures related to external recovery of waste</b>                                              |         |
| During manufacturing no waste of the substance is generated.                                                      |         |

|                                                                                               |                            |
|-----------------------------------------------------------------------------------------------|----------------------------|
| <b>SECTION 3</b>                                                                              | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>                                                                   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

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#### Section 3.2 -Environment

Used EUSES model.

#### SECTION 4

#### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

##### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.  
Risk Management Measures are based on qualitative risk characterisation.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

##### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

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### Exposure Scenario - Worker

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>300000000229</b>     |                                                                                                                                                                                                                                                                                        |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>                                                                                                                                                                                                                                                         |
| <b>Title</b>            | Use as an intermediate- Industrial                                                                                                                                                                                                                                                     |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU 3, SU8, SU9<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15<br><b>Environmental Release Categories:</b> ERC6a, ESVOC SpERC 6.1a.v1                                                                                    |
| <b>Scope of process</b> | Use of substance as an intermediate (not related to Strictly Controlled Conditions). Includes recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container). |

| SECTION 2                                                                                                                                                         |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Section 2.1                                                                                                                                                       |  | Control of Worker Exposure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Product Characteristics                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Physical form of product                                                                                                                                          |  | Liquid, vapour pressure 0.5 - 10 kPa at STP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Concentration of the Substance in Mixture/Article                                                                                                                 |  | Covers use of substance/product up to 100% (unless stated differently)..                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| Frequency and Duration of Use                                                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Covers daily exposures up to 8 hours (unless stated differently).                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Other Operational Conditions affecting Exposure                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Contributing Scenarios                                                                                                                                            |  | Risk Management Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| General measures (skin irritants).                                                                                                                                |  | Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.<br>Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying. |  |
| General exposures (closed systems)                                                                                                                                |  | No other specific measures identified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |

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|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General exposures (closed systems)with sample collectionGeneral measures (skin irritants). | No other specific measures identified.                                                                                                                                          |
| General exposures (closed systems)Use in contained batch processes                         | No other specific measures identified.                                                                                                                                          |
| General exposures (open systems)Batch processwith sample collection                        | No other specific measures identified.                                                                                                                                          |
| Process sampling                                                                           | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).<br>, or:<br>Avoid carrying out activities involving exposure for more than 1 hour. |
| Laboratory activities                                                                      | No other specific measures identified.                                                                                                                                          |
| Bulk transfers(open systems)with potential for aerosol generation.                         | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).<br>, or:<br>Avoid carrying out activities involving exposure for more than 1 hour. |
| Bulk transfers(closed systems)                                                             | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).<br>, or:<br>Avoid carrying out activities involving exposure for more than 1 hour. |
| Equipment cleaning and maintenance                                                         | Drain down system prior to equipment opening or maintenance.                                                                                                                    |
| Storage.General measures (skin irritants).                                                 | Store substance within a closed system.<br>No other specific measures identified.                                                                                               |
| <b>Section 2.2</b>                                                                         | <b>Control of Environmental Exposure</b>                                                                                                                                        |
| Substance is a unique structure.                                                           |                                                                                                                                                                                 |
| Readily biodegradable.                                                                     |                                                                                                                                                                                 |
| <b>Amounts Used</b>                                                                        |                                                                                                                                                                                 |
| Fraction of EU tonnage used in region:                                                     | 0,1                                                                                                                                                                             |
| Regional use tonnage (tonnes/year):                                                        | 3,57E+05                                                                                                                                                                        |
| Fraction of Regional tonnage used locally:                                                 | 0,01                                                                                                                                                                            |
| Annual site tonnage (tonnes/year):                                                         | 3,57E+03                                                                                                                                                                        |
| Maximum daily site tonnage (kg/day):                                                       | 1,19E+04                                                                                                                                                                        |
| <b>Frequency and Duration of Use</b>                                                       |                                                                                                                                                                                 |
| Continuous release.                                                                        |                                                                                                                                                                                 |
| Emission Days (days/year):                                                                 | 300                                                                                                                                                                             |

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|                                                                                                                   |          |
|-------------------------------------------------------------------------------------------------------------------|----------|
| <b>Environmental factors not influenced by risk management</b>                                                    |          |
| Local freshwater dilution factor:                                                                                 | 10       |
| Local marine water dilution factor:                                                                               | 100      |
| <b>Other Operational Conditions affecting Environmental Exposure</b>                                              |          |
| Release fraction to air from process (initial release prior to RMM):                                              | 5,0E-03  |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 3,0E-03  |
| Release fraction to soil from process (initial release prior to RMM):                                             | 1,0E-04  |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |          |
| Common practices vary across sites thus conservative process release estimates used.                              |          |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |          |
| Prevent discharge of undissolved substance to or recover from onsite wastewater.                                  |          |
| Risk from environmental exposure is driven by soil.                                                               |          |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    |          |
| Treat air emission to provide a typical removal efficiency of (%)                                                 | 80       |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 93,6     |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0        |
| <b>Organisational measures to prevent/limit release from site</b>                                                 |          |
| Do not apply industrial sludge to natural soils.                                                                  |          |
| Sludge should be incinerated, contained or reclaimed.                                                             |          |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>                                        |          |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 93,6     |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 93,6     |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 1,76E+04 |
| Assumed domestic sewage treatment plant flow (m3/d)                                                               | 2.000    |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |          |
| This substance is consumed during use and no waste of substance is generated.                                     |          |
| <b>Conditions and measures related to external recovery of waste</b>                                              |          |
| This substance is consumed during use and no waste of substance is generated.                                     |          |

|                                                                                               |                            |
|-----------------------------------------------------------------------------------------------|----------------------------|
| <b>SECTION 3</b>                                                                              | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>                                                                   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

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| <b>Section 3.2 -Environment</b> |
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| Used EUSES model. |
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| <b>SECTION 4</b> | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
|------------------|----------------------------------------------------------------|

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| <b>Section 4.1 - Health</b> |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.</p> <p>Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.</p> <p>Risk Management Measures are based on qualitative risk characterisation.</p> <p>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.</p> |
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|                                 |
|---------------------------------|
| <b>Section 4.2 -Environment</b> |
|---------------------------------|

|                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------|
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. |
|-------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------|
| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. |
|-----------------------------------------------------------------------------------------------------------------|

|                                                                                                                                          |
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| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ). |
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### Exposure Scenario - Worker

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|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>300000000230</b>     |                                                                                                                                                                                                                                                                        |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>                                                                                                                                                                                                                                         |
| <b>Title</b>            | Distribution of substance- Industrial                                                                                                                                                                                                                                  |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU 3, SU8, SU9<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 15<br><b>Environmental Release Categories:</b> ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC 6C, ERC 6D, ERC7, ESVOC SpERC 1.1b.v1 |
| <b>Scope of process</b> | Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading distribution and associated laboratory activities.                                     |

| SECTION 2                                                                                                                                                         |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Section 2.1                                                                                                                                                       |  | Control of Worker Exposure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Product Characteristics                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Physical form of product                                                                                                                                          |  | Liquid, vapour pressure 0.5 - 10 kPa at STP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Concentration of the Substance in Mixture/Article                                                                                                                 |  | Covers use of substance/product up to 100% (unless stated differently)..                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| Frequency and Duration of Use                                                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Covers daily exposures up to 8 hours (unless stated differently).                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Other Operational Conditions affecting Exposure                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Contributing Scenarios                                                                                                                                            |  | Risk Management Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| General measures (skin irritants).                                                                                                                                |  | Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.<br>Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying. |  |
| General exposures (closed systems)                                                                                                                                |  | No other specific measures identified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |

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|                                                                                            |                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General exposures (closed systems)with sample collectionGeneral measures (skin irritants). | No other specific measures identified.                                                                                                                               |
| General exposures (closed systems)Use in contained batch processes                         | No other specific measures identified.                                                                                                                               |
| General exposures (open systems)Batch processwith sample collection                        | No other specific measures identified.                                                                                                                               |
| Process sampling                                                                           | No other specific measures identified.                                                                                                                               |
| Laboratory activities                                                                      | No other specific measures identified.                                                                                                                               |
| Bulk transfers(closed systems)                                                             | Ensure material transfers are under containment or extract ventilation.<br>, or:<br>Operate activity away from sources of substance emission or release.             |
| Bulk transfers(open systems)                                                               | Ensure material transfers are under containment or extract ventilation.<br>, or:<br>Operate activity away from sources of substance emission or release.             |
| Drum and small package filling                                                             | Fill containers/cans at dedicated filling points supplied with local extract ventilation.<br>Ensure material transfers are under containment or extract ventilation. |
| Equipment cleaning and maintenance                                                         | Drain down and flush system prior to equipment opening or maintenance.                                                                                               |
| Storage.General measures (skin irritants).                                                 | Store substance within a closed system.<br>No other specific measures identified.                                                                                    |
| <b>Section 2.2</b>                                                                         | <b>Control of Environmental Exposure</b>                                                                                                                             |
| Substance is a unique structure.                                                           |                                                                                                                                                                      |
| Readily biodegradable.                                                                     |                                                                                                                                                                      |
| <b>Amounts Used</b>                                                                        |                                                                                                                                                                      |
| Fraction of EU tonnage used in region:                                                     | 0,143                                                                                                                                                                |
| Regional use tonnage (tonnes/year):                                                        | 6,0E+05                                                                                                                                                              |
| Fraction of Regional tonnage used locally:                                                 | 1                                                                                                                                                                    |
| Annual site tonnage (tonnes/year):                                                         | 6,0E+05                                                                                                                                                              |
| Maximum daily site tonnage (kg/day):                                                       | 2,0E+06                                                                                                                                                              |
| <b>Frequency and Duration of Use</b>                                                       |                                                                                                                                                                      |
| Continuous release.                                                                        |                                                                                                                                                                      |

# SAFETY DATA SHEET.

According to EC No 1907/2006 as amended as at the date of this SDS

## Ortho-xylene

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|                                                                                                                   |          |
|-------------------------------------------------------------------------------------------------------------------|----------|
| Emission Days (days/year):                                                                                        | 300      |
| <b>Environmental factors not influenced by risk management</b>                                                    |          |
| Local freshwater dilution factor:                                                                                 | 10       |
| Local marine water dilution factor:                                                                               | 100      |
| <b>Other Operational Conditions affecting Environmental Exposure</b>                                              |          |
| Release fraction to air from process (initial release prior to RMM):                                              | 1,0E-04  |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 1,0E-05  |
| Release fraction to soil from process (initial release prior to RMM):                                             | 1,0E-05  |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |          |
| Common practices vary across sites thus conservative process re-release estimates used.                           |          |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |          |
| Prevent discharge of undissolved substance to or recover from onsite wastewater.                                  |          |
| Risk from environmental exposure is driven by soil.                                                               |          |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    |          |
| Treat air emission to provide a typical removal efficiency of (%)                                                 | 90       |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 93,6     |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0        |
| <b>Organisational measures to prevent/limit release from site</b>                                                 |          |
| Do not apply industrial sludge to natural soils.                                                                  |          |
| Sludge should be incinerated, contained or reclaimed.                                                             |          |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>                                        |          |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 93,6     |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 93,6     |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 5,25E+06 |
| Assumed domestic sewage treatment plant flow (m3/d)                                                               | 2.000    |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |          |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.         |          |
| <b>Conditions and measures related to external recovery of waste</b>                                              |          |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.         |          |

### SECTION 3

### EXPOSURE ESTIMATION

#### Section 3.1 - Health

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The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

### Section 3.2 -Environment

Used EUSES model.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.  
Risk Management Measures are based on qualitative risk characterisation.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

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### Exposure Scenario - Worker

|                         |                                                                                                                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>300000000231</b>     |                                                                                                                                                                                                                                                                                                       |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>                                                                                                                                                                                                                                                                        |
| <b>Title</b>            | Formulation & (re)packing of substances and mixtures- Industrial                                                                                                                                                                                                                                      |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU 3, SU 10<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 14, PROC 15<br><b>Environmental Release Categories:</b> ERC2, ESVOC SpERC 2.2.v1                                                                               |
| <b>Scope of process</b> | Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities. |

|                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SECTION 2</b>                                                                                                                                                  | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Section 2.1</b>                                                                                                                                                | <b>Control of Worker Exposure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Product Characteristics</b>                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Physical form of product                                                                                                                                          | Liquid, vapour pressure 0.5 - 10 kPa at STP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Concentration of the Substance in Mixture/Article                                                                                                                 | Covers use of substance/product up to 100% (unless stated differently).,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Frequency and Duration of Use</b>                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Covers daily exposures up to 8 hours (unless stated differently).                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Other Operational Conditions affecting Exposure</b>                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Contributing Scenarios</b>                                                                                                                                     | <b>Risk Management Measures</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| General measures (skin irritants).                                                                                                                                | Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.<br>Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying. |
| General exposures (closed                                                                                                                                         | No other specific measures identified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|                                                                                                           |                                                                                              |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| systems)                                                                                                  |                                                                                              |
| General exposures (closed systems)with sample collectionGeneral measures (skin irritants).                | No other specific measures identified.                                                       |
| General exposures (closed systems)Use in contained batch processes                                        | No other specific measures identified.                                                       |
| General exposures (open systems)Batch processwith sample collectionwith potential for aerosol generation. | No other specific measures identified.                                                       |
| Batch processes at elevated temperatures                                                                  | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). |
| Process sampling                                                                                          | No other specific measures identified.                                                       |
| Laboratory activities                                                                                     | No other specific measures identified.                                                       |
| Bulk transfers                                                                                            | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).  |
| Mixing operations (open systems)with potential for aerosol generation.                                    | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).  |
| ManualTransfer from/pouring from containers                                                               | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).  |
| Drum/batch transfers                                                                                      | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).  |
| Production or preparation or articles by tableting, compression, extrusion or pelletisation               | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).  |
| Drum and small package filling                                                                            | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).  |
| Equipment cleaning and maintenance                                                                        | Drain down and flush system prior to equipment opening or maintenance.                       |
| Storage.General measures (skin irritants).                                                                | Store substance within a closed system.<br>No other specific measures identified.            |
| <b>Section 2.2</b>                                                                                        | <b>Control of Environmental Exposure</b>                                                     |
| Substance is a unique structure.                                                                          |                                                                                              |
| Readily biodegradable.                                                                                    |                                                                                              |

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|                                                                                                                   |          |
|-------------------------------------------------------------------------------------------------------------------|----------|
| <b>Amounts Used</b>                                                                                               |          |
| Fraction of EU tonnage used in region:                                                                            | 0,1      |
| Regional use tonnage (tonnes/year):                                                                               | 7,0E+03  |
| Fraction of Regional tonnage used locally:                                                                        | 1        |
| Annual site tonnage (tonnes/year):                                                                                | 7,0E+03  |
| Maximum daily site tonnage (kg/day):                                                                              | 2,3E+04  |
| <b>Frequency and Duration of Use</b>                                                                              |          |
| Continuous release.                                                                                               |          |
| Emission Days (days/year):                                                                                        | 300      |
| <b>Environmental factors not influenced by risk management</b>                                                    |          |
| Local freshwater dilution factor:                                                                                 | 10       |
| Local marine water dilution factor:                                                                               | 100      |
| <b>Other Operational Conditions affecting Environmental Exposure</b>                                              |          |
| Release fraction to air from process (initial release prior to RMM):                                              | 2,5E-02  |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 2,0E-03  |
| Release fraction to soil from process (initial release prior to RMM):                                             | 1,0E-04  |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |          |
| Common practices vary across sites thus conservative process re-release estimates used.                           |          |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |          |
| Prevent discharge of undissolved substance to or recover from onsite wastewater.                                  |          |
| Risk from environmental exposure is driven by soil.                                                               |          |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    |          |
| Treat air emission to provide a typical removal efficiency of (%)                                                 | 0        |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 93,6     |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0        |
| <b>Organisational measures to prevent/limit release from site</b>                                                 |          |
| Do not apply industrial sludge to natural soils.                                                                  |          |
| Sludge should be incinerated, contained or reclaimed.                                                             |          |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>                                        |          |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 93,6     |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 93,6     |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 2,16E+04 |
| Assumed domestic sewage treatment plant flow (m3/d)                                                               | 2.000    |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |          |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.         |          |

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### Conditions and measures related to external recovery of waste

External recovery and recycling of waste should comply with applicable local and/or regional regulations.

### SECTION 3

### EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

#### Section 3.2 -Environment

Used EUSES model.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.  
Risk Management Measures are based on qualitative risk characterisation.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

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### Exposure Scenario - Worker

|                         |                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>300000000232</b>     |                                                                                                                                                                                                                                                                                                                                                                      |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>                                                                                                                                                                                                                                                                                                                                       |
| <b>Title</b>            | Uses in Coatings- Industrial                                                                                                                                                                                                                                                                                                                                         |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU 3<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13, PROC 15<br><b>Environmental Release Categories:</b> ERC4, ESVOC SpERC 4.3a.v1                                                                                                                                           |
| <b>Scope of process</b> | Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities. |

|                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SECTION 2</b>                                                                                                                                               | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Section 2.1</b>                                                                                                                                             | <b>Control of Worker Exposure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Product Characteristics</b>                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Physical form of product                                                                                                                                       | Liquid, vapour pressure 0.5 - 10 kPa at STP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Concentration of the Substance in Mixture/Article                                                                                                              | Covers use of substance/product up to 100% (unless stated differently).,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Frequency and Duration of Use</b>                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Covers daily exposures up to 8 hours (unless stated differently).                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Other Operational Conditions affecting Exposure</b>                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Contributing Scenarios</b>                                                                                                                                  | <b>Risk Management Measures</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| General measures (skin irritants).                                                                                                                             | Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.<br>Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying. |

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|                                                                                             |                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General exposures (closed systems)                                                          | No other specific measures identified.                                                                                                                             |
| General exposures (closed systems)with sample collectionUse in contained systems            | No other specific measures identified.                                                                                                                             |
| Film formation - force drying, stoving and other technologies.                              | No other specific measures identified.                                                                                                                             |
| Mixing operations (closed systems)General exposures (closed systems)                        | No other specific measures identified.                                                                                                                             |
| Film formation - air drying                                                                 | No specific measures identified.                                                                                                                                   |
| Preparation of material for applicationMixing operations (open systems)                     | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).                                                                        |
| Spraying (automatic/robotic)                                                                | Carry out in a vented booth provided with laminar airflow.                                                                                                         |
| ManualSpraying                                                                              | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).<br>Wear a respirator conforming to EN140 with Type A filter or better. |
| Material transfersNon-dedicated facility                                                    | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).                                                                        |
| Material transfersDedicated facility                                                        | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).                                                                        |
| Roller, spreader, flow application                                                          | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).                                                                        |
| Dipping, immersion and pouring                                                              | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).                                                                        |
| Laboratory activities                                                                       | No other specific measures identified.                                                                                                                             |
| Material transfersDrum/batch transfersTransfer from/pouring from containers                 | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).                                                                        |
| Production or preparation of articles by tableting, compression, extrusion or pelletisation | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).                                                                        |
| Equipment cleaning and maintenance                                                          | Drain down system prior to equipment opening or maintenance.                                                                                                       |

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|                                                                                                                   |                                                                                   |
|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Storage.General measures (skin irritants).                                                                        | Store substance within a closed system.<br>No other specific measures identified. |
| <b>Section 2.2</b>                                                                                                | <b>Control of Environmental Exposure</b>                                          |
| Substance is a unique structure.                                                                                  |                                                                                   |
| Readily biodegradable.                                                                                            |                                                                                   |
| <b>Amounts Used</b>                                                                                               |                                                                                   |
| Fraction of EU tonnage used in region:                                                                            | 0,1                                                                               |
| Regional use tonnage (tonnes/year):                                                                               | 7,0E+03                                                                           |
| Fraction of Regional tonnage used locally:                                                                        | 0,3                                                                               |
| Annual site tonnage (tonnes/year):                                                                                | 2,1E+03                                                                           |
| Maximum daily site tonnage (kg/day):                                                                              | 7,0E+03                                                                           |
| <b>Frequency and Duration of Use</b>                                                                              |                                                                                   |
| Continuous release.                                                                                               |                                                                                   |
| Emission Days (days/year):                                                                                        | 300                                                                               |
| <b>Environmental factors not influenced by risk management</b>                                                    |                                                                                   |
| Local freshwater dilution factor:                                                                                 | 10                                                                                |
| Local marine water dilution factor:                                                                               | 100                                                                               |
| <b>Other Operational Conditions affecting Environmental Exposure</b>                                              |                                                                                   |
| Release fraction to air from process (initial release prior to RMM):                                              | 9,8E-02                                                                           |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 7,0E-03                                                                           |
| Release fraction to soil from process (initial release prior to RMM):                                             | 0                                                                                 |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |                                                                                   |
| Common practices vary across sites thus conservative process re-lease estimates used.                             |                                                                                   |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |                                                                                   |
| Prevent discharge of undissolved substance to or recover from onsite wastewater.                                  |                                                                                   |
| Risk from environmental exposure is driven by soil.                                                               |                                                                                   |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    |                                                                                   |
| Treat air emission to provide a typical removal efficiency of (%)                                                 | 90                                                                                |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 93,6                                                                              |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0                                                                                 |
| <b>Organisational measures to prevent/limit release from site</b>                                                 |                                                                                   |
| Do not apply industrial sludge to natural soils.                                                                  |                                                                                   |
| Sludge should be incinerated, contained or reclaimed.                                                             |                                                                                   |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>                                        |                                                                                   |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 93,6                                                                              |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 93,6                                                                              |

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|                                                                                                             |          |
|-------------------------------------------------------------------------------------------------------------|----------|
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 2,57E+04 |
| Assumed domestic sewage treatment plant flow (m3/d)                                                         | 2.000    |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                          |          |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.   |          |
| <b>Conditions and measures related to external recovery of waste</b>                                        |          |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.   |          |

|                                                                                               |                            |
|-----------------------------------------------------------------------------------------------|----------------------------|
| <b>SECTION 3</b>                                                                              | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>                                                                   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|                                 |
|---------------------------------|
| <b>Section 3.2 -Environment</b> |
| Used EUSES model.               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                |
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| <b>SECTION 4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.<br>Risk Management Measures are based on qualitative risk characterisation.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |                                                                |

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| <b>Section 4.2 -Environment</b>                                                                                                                                                          |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.                                                            |
| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.                                                                          |
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).                                                 |

# SAFETY DATA SHEET.

According to EC No 1907/2006 as amended as at the date of this SDS

## Ortho-xylene

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### Exposure Scenario - Worker

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| <b>300000000233</b>     |                                                                                                                                                                                                                                                                                                                                                            |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>                                                                                                                                                                                                                                                                                                                             |
| <b>Title</b>            | Uses in Coatings- Professional                                                                                                                                                                                                                                                                                                                             |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU 22<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19<br><b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.3b.v1                                                                                                              |
| <b>Scope of process</b> | Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities. |

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| <b>SECTION 2</b>                                                                                                                                                  | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Section 2.1</b>                                                                                                                                                | <b>Control of Worker Exposure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Product Characteristics</b>                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Physical form of product                                                                                                                                          | Liquid, vapour pressure 0.5 - 10 kPa at STP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Concentration of the Substance in Mixture/Article                                                                                                                 | Covers use of substance/product up to 100% (unless stated differently).,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Frequency and Duration of Use</b>                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Covers daily exposures up to 8 hours (unless stated differently).                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Other Operational Conditions affecting Exposure</b>                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Contributing Scenarios</b>                                                                                                                                     | <b>Risk Management Measures</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| General measures (skin irritants).                                                                                                                                | Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.<br>Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying. |

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| General exposures (closed systems)                             | No other specific measures identified.                                                                                                                                    |
| Filling/ preparation of equipment from drums or containers.    | No other specific measures identified.                                                                                                                                    |
| General exposures (closed systems)Use in contained systems     | No other specific measures identified.                                                                                                                                    |
| Preparation of material for application                        | No other specific measures identified.                                                                                                                                    |
| Film formation - air dry-ingOutdoor                            | Ensure operation is undertaken outdoors.                                                                                                                                  |
| Film formation - air dry-ingIndoor                             | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).                                                                              |
| Preparation of material for applicationIndoor                  | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).                                                                              |
| Preparation of material for applicationOutdoor                 | Avoid carrying out operation for more than 4 hours.                                                                                                                       |
| Material trans-fersDrum/batch trans-fersDedicated facility     | Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. |
| Material trans-fersDrum/batch trans-fersNon-dedicated facility | Use drum pumps or carefully pour from container.                                                                                                                          |
| Roller, spreader, flow applicationIndoor                       | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).                                                                              |
| Roller, spreader, flow applicationOutdoor                      | Ensure operation is undertaken outdoors.<br>Wear a respirator conforming to EN140 with Type A filter or better.                                                           |
| ManualSprayingIndoor                                           | Carry out in a vented booth or extracted enclosure.<br>Wear a respirator conforming to EN140 with Type A filter or better.                                                |
| ManualSprayingOutdoor                                          | Ensure operation is undertaken outdoors.<br>Wear a respirator conforming to EN140 with Type A filter or better.                                                           |
| Dipping, immersion and pouringIndoor                           | Provide extraction ventilation at points where emissions occur.                                                                                                           |
| Dipping, immersion and pouringOutdoor                          | Ensure operation is undertaken outdoors.<br>Wear a respirator conforming to EN140 with Type A filter or better.                                                           |

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| Laboratory activities                                                                                             | No other specific measures identified.                                                          |
| Hand application - finger-paints, pastels, adhesivesIndoor                                                        | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).    |
| Hand application - finger-paints, pastels, adhesivesOutdoor                                                       | Ensure operation is undertaken outdoors.<br>Avoid carrying out operation for more than 4 hours. |
| Equipment cleaning and maintenance                                                                                | Drain down system prior to equipment opening or maintenance.                                    |
| Storage.General measures (skin irritants).                                                                        | Store substance within a closed system.<br>No other specific measures identified.               |
| <b>Section 2.2</b>                                                                                                | <b>Control of Environmental Exposure</b>                                                        |
| Substance is a unique structure.                                                                                  |                                                                                                 |
| Readily biodegradable.                                                                                            |                                                                                                 |
| <b>Amounts Used</b>                                                                                               |                                                                                                 |
| Fraction of EU tonnage used in region:                                                                            | 0,1                                                                                             |
| Regional use tonnage (tonnes/year):                                                                               | 7,0E+03                                                                                         |
| Fraction of Regional tonnage used locally:                                                                        | 0,002                                                                                           |
| Annual site tonnage (tonnes/year):                                                                                | 14                                                                                              |
| Maximum daily site tonnage (kg/day):                                                                              | 38                                                                                              |
| <b>Frequency and Duration of Use</b>                                                                              |                                                                                                 |
| Continuous release.                                                                                               |                                                                                                 |
| Emission Days (days/year):                                                                                        | 365                                                                                             |
| <b>Environmental factors not influenced by risk management</b>                                                    |                                                                                                 |
| Local freshwater dilution factor:                                                                                 | 10                                                                                              |
| Local marine water dilution factor:                                                                               | 100                                                                                             |
| <b>Other Operational Conditions affecting Environmental Exposure</b>                                              |                                                                                                 |
| Release fraction to air from process (initial release prior to RMM):                                              | 9,8E-01                                                                                         |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 1,0E-02                                                                                         |
| Release fraction to soil from process (initial release prior to RMM):                                             | 1,0E-02                                                                                         |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |                                                                                                 |
| Common practices vary across sites thus conservative process release estimates used.                              |                                                                                                 |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |                                                                                                 |
| Prevent discharge of undissolved substance to or recover from onsite wastewater.                                  |                                                                                                 |
| Risk from environmental exposure is driven by soil.                                                               |                                                                                                 |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    |                                                                                                 |
| Treat air emission to provide a typical removal efficiency of (%)                                                 | 0                                                                                               |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 93,6                                                                                            |
| If discharging to domestic sewage treatment plant, no secondary                                                   | 0                                                                                               |

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| wastewater treatment required.                                                                              |       |
| <b>Organisational measures to prevent/limit release from site</b>                                           |       |
| Prevent environmental discharge consistent with regulatory requirements.                                    |       |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>                                  |       |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                               | 93,6  |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)    | 93,6  |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 2,11  |
| Assumed domestic sewage treatment plant flow (m3/d)                                                         | 2.000 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                          |       |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.   |       |
| <b>Conditions and measures related to external recovery of waste</b>                                        |       |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.   |       |

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| <b>SECTION 3</b>                                                                              | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>                                                                   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|                                 |  |
|---------------------------------|--|
| <b>Section 3.2 -Environment</b> |  |
| Used EUSES model.               |  |

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| <b>SECTION 4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.<br>Risk Management Measures are based on qualitative risk characterisation.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |                                                                |

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| <b>Section 4.2 -Environment</b>                                                                                                                                                          |  |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. |  |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.                                                            |  |

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| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. |
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| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ). |
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