Material Safety Data Sheet
Xylene

Version 1.3 Revision Date: 08/12/2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Xylene
Product Use Description: Solvent.

Manufacturer or supplier's details
Company: Nexeo Solutions LLC
Address: 3 Waterway Square Place Suite 1000
Woodlands, Tx. 77380
United States of America

Emergency telephone number:
Health North America: 1-855-NEXEO4U (1-855-639-3648)
Health International: 1-855-NEXEO4U (1-855-639-3648)
Transport North America: CHEMTREC 800.424.9300

Additional Information:
Responsible Party: Product Safety Group
E-Mail: msds@nexeosolutions.com
MSDS Requests: 1-855-429-2661
MSDS Requests Fax: 1-281-500-2370
Website: www.nexeosolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Flammable liquids: Category 2
Acute toxicity: Category 4
(Ihalation)
Acute toxicity (Dermal): Category 4
Skin irritation: Category 2
Eye irritation: Category 2B
Carcinogenicity: Category 2
Specific target organ toxicity - repeated exposure: Category 2 (Auditory system)
Aspiration hazard: Category 1

GHS Label element
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Hazard pictograms

Signal word: Danger

Hazard statements:
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 + H332 Harmful in contact with skin or if inhaled
H315 + H320 Causes skin and eye irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:
Prevention:
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take precautionary measures against static discharge.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P281 Use personal protective equipment as required.

Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 Do NOT induce vomiting.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/container to an approved waste disposal plant.
Potential Health Effects

Carcinogenicity:

IARC
Group 2B: Possibly carcinogenic to humans

100-41-4 Ethylbenzene

ACGIH
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Emergency Overview

<table>
<thead>
<tr>
<th>Appearance</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>aromatic</td>
</tr>
<tr>
<td>Hazard Summary</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>Mixed xylenes</td>
<td>90 - 100</td>
</tr>
<tr>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>10 - 30</td>
</tr>
</tbody>
</table>

Special Notes: Mixed Xylenes contains the isomers o-, m-, p- Xylene, and Ethylbenzene. Trace amounts of Toluene and Benzene may also be present as impurities.

SECTION 4. FIRST AID MEASURES

General advice
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours...
If inhaled: If unconscious place in recovery position and seek medical advice.

In case of skin contact: If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact: Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed: Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products: No hazardous combustion products are known

Specific extinguishing methods: Use a water spray to cool fully closed containers.

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.

Special protective equipment: Wear self-contained breathing apparatus for firefighting...
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NFPA Flammable and Combustible Liquids Classification:
Flammable Liquid Class IB

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions:
Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

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

SECTION 7. HANDLING AND STORAGE

Advice on safe handling:
Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage:
No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully re-
sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Components</th>
<th>Value type</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>Mixed xylenes</td>
<td>TWA</td>
<td>100 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>150 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm 435 mg/m^3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>TWA</td>
<td>20 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>125 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm 435 mg/m^3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>125 ppm 545 mg/m^3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm 435 mg/m^3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>100 ppm 435 mg/m^3</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>125 ppm 545 mg/m^3</td>
<td>OSHA P0</td>
<td></td>
</tr>
</tbody>
</table>

Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>Sum of mandelic acid and phenyl glyoxylic acid</td>
<td>Urine</td>
<td>End of shift at end of work-week</td>
<td>0.7 g/g creatinine</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

In the case of vapour formation use a respirator with an approved filter.
## Hand protection
**Remarks:** The suitability for a specific workplace should be discussed with the producers of the protective gloves.

## Eye protection
**Remarks:** Eye wash bottle with pure water
Tightly fitting safety goggles

## Skin and body protection
**Remarks:** Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

## Hygiene measures
**Remarks:** When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>colourless</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>aromatic</td>
</tr>
<tr>
<td><strong>Odour Threshold</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>7 @ 20 °C (68 °F)</td>
</tr>
<tr>
<td><strong>Freezing Point (Melting point/freezing point)</strong></td>
<td>-26.15 °C (-15.07 °F)</td>
</tr>
<tr>
<td><strong>Boiling Point (Boiling point/boiling range)</strong></td>
<td>138.85 °C (281.93 °F)</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>21 - 27 °C (70 - 81 °F)</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>0.76 n-Butyl Acetate</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Burning rate</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Upper explosion limit</strong></td>
<td>7.1 % (V)</td>
</tr>
<tr>
<td><strong>Lower explosion limit</strong></td>
<td>1.0 % (V)</td>
</tr>
</tbody>
</table>
Vapour pressure : 7 - 9 mmHg @ 20 °C (68 °F)
Relative vapour density : 3.7
Relative density : 0.87 @ 16 °C (61 °F)
Density : 0.86 g/cm³ @ 20 °C (68 °F)
Bulk density : No data available
Solubility(ies)
   Water solubility : negligible
   Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : log Pow: 3.16
Auto-ignition temperature : 432 - 530 °C
Thermal decomposition : No data available
Viscosity
   Viscosity, kinematic : < 0.9 mm²/s

SECTION 10. STABILITY AND REACTIVITY
Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Vapours may form explosive mixture with air.
Conditions to avoid : Exposure to sunlight.
   Heat, flames and sparks.
Incompatible materials : Strong oxidizing agents
SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

**Product:**

Acute oral toxicity: Acute toxicity estimate: 3,523 mg/kg
Method: Calculation method

Acute inhalation toxicity: Acute toxicity estimate: 4631 ppm
Exposure time: 4 h
Test atmosphere: gas
Method: Calculation method

Acute dermal toxicity: Acute toxicity estimate: 1,100 mg/kg
Method: Calculation method

**Components:**

**1330-20-7:**

Acute oral toxicity: LD50 (rat, male): 3,523 mg/kg
Method: EU Method B.1 (Acute Toxicity, Oral)
Target Organs: Kidney, Bladder
GLP: no

Acute inhalation toxicity: LC50 (rat, male): 6700 ppm
Exposure time: 4 h
GLP: No data available
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.
Remarks: Acutely Toxic Category 4

Acute dermal toxicity: Acute toxicity estimate: 1,100 mg/kg
Method: Expert judgement

**100-41-4:**

Acute inhalation toxicity: LC50 (Mouse, Male): 10 mg/l
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity: LD50 (rabbit): 15,433 mg/kg

**Skin corrosion/irritation**

**Product:**

Remarks: May cause skin irritation in susceptible persons.

**Components:**
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**1330-20-7:**
Species: rabbit  
Exposure time: 24 h  
Result: Irritating to skin  
Remarks: Skin irritation, Category 2

**100-41-4:**
Species: rabbit  
Result: Mild skin irritation

**Serious eye damage/eye irritation**

**Product:**
Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

**Components:**

**1330-20-7:**
Species: rabbit  
Result: Mild eye irritation

**100-41-4:**
Species: rabbit  
Result: Mild eye irritation  
Remarks: No data available

**Respiratory or skin sensitisation**

**Components:**

**1330-20-7:**
Remarks: No data available

**100-41-4:**
Remarks: No data available

**Germ cell mutagenicity**

**Components:**

**1330-20-7:**
Genotoxicity in vitro  
Remarks: Test Type: Chromosome aberration test in vitro  
Test species: Chinese hamster ovary (CHO)  
Metabolic activation: with and without metabolic activation  
Method: Mutagenicity (in vitro mammalian cytogenetic test)  
Result: negative  
Remarks: Test Type: Sister chromatid exchange assay in mammalian cells
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Test species: Chinese hamster ovary (CHO)
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo
Test Type: Dominant lethal assay
Test species: mouse
Application Route: Subcutaneous
Exposure time: 8 wk
Dose: 1.0 mL/kg
Method: OECD Test Guideline 478
Result: negative
GLP: no

Test Type: In vivo micronucleus test
Test species: mouse (male)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Test Type: DNA damage and/or repair
Test species: mouse (male and female)
Application Route: Inhalation
Method: OECD Test Guideline 486
Result: negative
GLP: yes

GLP: yes

Germ cell mutagenicity-Assessment
Animal testing did not show any mutagenic effects.

100-41-4:
Genotoxicity in vitro
Test Type: Chromosome aberration test in vitro
Test species: Chinese hamster ovary (CHO)
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: no

: Test Type: Mammalian cell gene mutation assay
Test species: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Genotoxicity in vivo
Test Type: Mammalian cell gene mutation assay
Test species: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

: Test Type: In vivo micronucleus test
Test species: mouse (male)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Test Type: DNA damage and/or repair
Test species: mouse (male and female)
Application Route: Inhalation
Method: OECD Test Guideline 486
Result: negative
GLP: yes

Germ cell mutagenicity-Assessment
In vivo tests did not show mutagenic effects
Carcinogenicity

Components:
1330-20-7:
Species: mouse, (male and female)
Application Route: Oral
Exposure time: 103 wk
Dose: 0, 500 or 1000 mg/kg
Frequency of Treatment: 5 days/week
Result: did not display carcinogenic properties
GLP: No data available

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

100-41-4:
Species: mouse, (male and female)
Application Route: Inhalation
Exposure time: 103 wk
Activity duration: 6 h
Dose: 0, 75, 250, 750 ppm
Frequency of Treatment: 5 days/week
NOAEL: 250 ppm
Method: OECD Test Guideline 453
Result: evidence of carcinogenic activity
Symptoms: increased incidences of alveolar/bronchiolar neoplasms, increase incidence of hepatocellular carcinomas
GLP: yes

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

Reproductive toxicity

Components:
1330-20-7:
Effects on fertility : Test Type: Two-generation study
Species: rat, male and female
Application Route: Inhalation
Dose: 0, 25, 100 and 500 ppm
Duration of Single Treatment: 6 h
Frequency of Treatment: 7 days/week
General Toxicity - Parent: NOAEC: > 500 ppm
General Toxicity F1: NOAEC: > 500 ppm
Early Embryonic Development: NOAEC: > 500 ppm
Result: No reproductive effects.
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Effects on foetal development:
Species: rat
Application Route: Inhalation
Dose: 0, 100, 500, 1000 or 2000 ppm
Duration of Single Treatment: 14 d
Frequency of Treatment: 6 hr/day
General Toxicity Maternal: NOAEC: 500 ppm
Teratogenicity: NOAEC: > 2,000
Developmental Toxicity: NOAEC: 100 ppm
Result: No teratogenic effects., Developmental toxicity occurred at maternal toxicity dose levels

Reproductive toxicity - Assessment:
Animal testing did not show any effects on fertility.
Damage to fetus not classifiable

100-41-4:
Effects on fertility:
Test Type: One generation study
Species: rat, male and female
Application Route: Inhalation
Dose: 0, 100, 500 and 1000 ppm
Duration of Single Treatment: 6 h
General Toxicity - Parent: NOAEC: 1,000 ppm
General Toxicity F1: NOAEC: 100 ppm
Symptoms: Reduced foetal weight. Reduced offspring weight gain.
Method: OECD Test Guideline 415
Result: No reproductive effects.
GLP: yes

Effects on foetal development:
Species: rat
Application Route: Inhalation
Dose: 0, 100, 500, 1000, 2000 ppm
Duration of Single Treatment: 15 d
General Toxicity Maternal: NOAEC: 500 ppm
Teratogenicity: NOAEC: 2,000 ppm
Developmental Toxicity: NOAEC: 500 ppm
Symptoms: Reduced body weight
Method: OECD Test Guideline 414
Result: Developmental toxicity occurred at maternal toxicity dose levels
GLP: No data available

Reproductive toxicity - Assessment:
No toxicity to reproduction
Did not show teratogenic effects in animal experiments.

STOT - single exposure
Product:
No data available
Components:
No data available

Components:
No data available

STOT - repeated exposure

Product:
No data available

**Components:**

**1330-20-7:**
Target Organs: Liver, Kidney, Central nervous system
Assessment: May cause damage to organs through prolonged or repeated exposure.

**100-41-4:**
Target Organs: Auditory system
Assessment: May cause damage to organs through prolonged or repeated exposure, The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Repeated dose toxicity

**Components:**

**1330-20-7:**
Species: rat, male and female
NOAEL: 250 mg/kg
Application Route: Oral
Exposure time: 103 wk
Number of exposures: 5 d/wk
Dose: 0, 250 or 500 mg/kg
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**100-41-4:**
Species: rat, male and female
NOAEL: 75 mg/kg
Application Route: Oral
Exposure time: 28 d
Dose: 75, 250 and 750 mg/kg bw/day
Method: OECD Test Guideline 407
GLP: yes
Symptoms: Increased kidney and liver weights

Aspiration toxicity

Product:
Aspiration Toxicity - Category 1

**Components:**

**1330-20-7:**
May be fatal if swallowed and enters airways.

**100-41-4:**
May be fatal if swallowed and enters airways.

**Further information**

**Product:**
Remarks: Solvents may degrease the skin.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

**1330-20-7:**

Toxicity to fish:
- LC50 (Oncorhynchus mykiss (rainbow trout)): 2.6 mg/l
- Exposure time: 96 h
- Test substance: Information given is based on data obtained from similar substances.
- Method: OECD Test Guideline 203
- GLP: No data available

Toxicity to daphnia and other aquatic invertebrates:
- IC50 (Daphnia magna (Water flea)): 1 mg/l
- Exposure time: 24 h
- Test Type: static test
- Test substance: Information given is based on data obtained from similar substances.
- Method: OECD Test Guideline 202
- GLP: No data available

Toxicity to algae:
- EC50 (Pseudokirchneriella subcapitata): 4.36 mg/l
- End point: Growth rate
- Exposure time: 73 h
- Test Type: static test
- Analytical monitoring: yes
- Method: OECD Test Guideline 201
- GLP: yes

**100-41-4:**
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| Toxicity to fish          | LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l |
|                         | Exposure time: 96 h                                     |
|                         | Test Type: semi-static test                             |
| Toxicity to daphnia and other aquatic invertebrates | EC50 (Daphnia magna (Water flea)): 1.8 mg/l |
|                         | Exposure time: 48 h                                     |
|                         | Test Type: static test                                  |
| Toxicity to algae        | EC50 (Pseudokirchneriella subcapitata): 5.4 mg/l       |
|                         | Exposure time: 72 h                                     |
|                         | Test Type: static test                                  |
|                         | Analytical monitoring: yes                              |
|                         | Method: Static                                         |
|                         | GLP: yes                                               |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | (Daphnia): 3.6 mg/l |
| Toxicity to bacteria      | GLP:                                                    |
|                         | Remarks: No data available                             |

Ecotoxicology Assessment
Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.

Persistence and degradability

**Components:**

**1330-20-7:**
Biodegradability: Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 72 %
Exposure time: 20 d

**100-41-4:**
Biodegradability: Inoculum: activated sludge
Concentration: 22 mg/l
Result: Readily biodegradable.
Biodegradation: 70 %
Exposure time: 28 d
GLP: yes

Bioaccumulative potential

**Components:**

**1330-20-7:**
Partition coefficient: n-octanol/water: log Pow: 2.77 - 3.15
100-41-4:
Partition coefficient: n-octanol/water : log Pow: 2.92

Mobility in soil
No data available

Other adverse effects

Product:
Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life., Harmful to aquatic life with long lasting effects.

Components:
100-41-4:
Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO’s Environmental Services Group at 800-637-7922.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
SECTION 14. TRANSPORT INFORMATION

IATA (International Air Transport Association): UN1307, XYLENES, 3, III

IMDG (International Maritime Dangerous Goods): UN1307, XYLENES, 3, III, Flash Point: 21 - 27 °C (70 - 81 °F)

DOT (Department of Transportation): UN1307, XYLENES, 3, III

SECTION 15. REGULATORY INFORMATION

OSHA Hazards: Flammable liquid, Carcinogen, Mild skin irritant, Mild eye irritant

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed xylenes</td>
<td>1330-20-7</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards: Fire Hazard, Chronic Health Hazard

SARA 302: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: The following components are subject to reporting levels established by SARA Title III, Section 313:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>Mixed xylenes</td>
<td>100 %</td>
</tr>
<tr>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>30 %</td>
</tr>
</tbody>
</table>

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>30 %</td>
</tr>
</tbody>
</table>
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC’s (40 CFR 60.489):

1330-20-7 Mixed xylenes 100 %
100-41-4 Ethylbenzene 30 %

Clean Water Act
The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

1330-20-7 Mixed xylenes 100 %
100-41-4 Ethylbenzene 30 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

1330-20-7 Mixed xylenes 100 %
100-41-4 Ethylbenzene 30 %

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

100-41-4 Ethylbenzene 30 %

US State Regulations
Massachusetts Right To Know

1330-20-7 Mixed xylenes 90 - 100 %
100-41-4 Ethylbenzene 10 - 30 %

Pennsylvania Right To Know

1330-20-7 Mixed xylenes 90 - 100 %
100-41-4 Ethylbenzene 10 - 30 %

New Jersey Right To Know

1330-20-7 Mixed xylenes 90 - 100 %
100-41-4 Ethylbenzene 10 - 30 %

California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

100-41-4 Ethylbenzene

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

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1907/2006 (EU)</td>
<td>n (Negative listing) (Not in compliance with the inventory)</td>
</tr>
<tr>
<td>Switzerland. New notified substances and declared preparations</td>
<td>y (positive listing) (The formulation contains substances listed on the Swiss Inventory)</td>
</tr>
<tr>
<td>United States TSCA Inventory</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>Inventory List</td>
<td>Status</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Canadian Domestic Substances List (DSL)</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>Australia Inventory of Chemical Substances (AICS)</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>New Zealand. Inventory of Chemical Substances</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>Japan. ENCS - Existing and New Chemical Substances Inventory</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>Japan. ISHL - Inventory of Chemical Substances (METI)</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>Korea. Korean Existing Chemicals Inventory (KECI)</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>China. Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>y (positive listing)</td>
</tr>
</tbody>
</table>
SECTION 16. OTHER INFORMATION

Further information

**NFPA:**

- Flammability: 3
- Health: 2
- Instability: 0

**HMIS III:**

- HEALTH: 2*
- FLAMMABILITY: 3
- PHYSICAL HAZARD: 0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.

**Legacy MSDS:** R0004340, 100000006769

**Material number:**

16063696, 16056826, 16056828, 16056827, 16056829, 16041807, 16040131, 16036781, 16017302, 16003489, 781040, 776944, 763953, 710729, 710728, 708716, 707260, 706448, 638218, 623621, 568063, 554061, 554060, 554200, 508616, 508582, 508489, 70145, 70227, 70442, 70136, 102351, 102986, 102907, 87256, 86304, 53755, 69589, 103201, 53758, 85972, 103204, 86307, 102898, 69592, 70082, 85965, 54057, 70432, 86513, 102348, 102683, 102433, 86815, 103194, 69917, 508229, 508294, 508230, 502270, 39908, 22253, 22252, 22034, 22033, 20530, 20529, 20528, 20526, 20525, 20523, 20522, 20524

**Key or legend to abbreviations and acronyms used in the safety data sheet**

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>ADIC</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Sub-</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
</tbody>
</table>

**MSDS Number:** 1000000002882
# Material Safety Data Sheet

## Xylene

**Version 1.3**  
**Revision Date:** 08/12/2014

<table>
<thead>
<tr>
<th>Substance List</th>
<th>Symbol/Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDSL Canada, Non-Domestic Substances List</td>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>CNS Central Nervous System</td>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>CAS Chemical Abstract Service</td>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
</tr>
<tr>
<td>EC50 Effective Concentration</td>
<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
</tr>
<tr>
<td>EC50 Effective Concentration 50%</td>
<td>NOEC</td>
<td>No Observed Effect Concentration</td>
</tr>
<tr>
<td>EGEST EOSCA Generic Exposure Scenario Tool</td>
<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
</tr>
<tr>
<td>EOSCA European Oilfield Specialty Chemicals Association</td>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>EINECS European Inventory of Existing Chemical Substances</td>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
</tr>
<tr>
<td>MAK Germany Maximum Concentration Values</td>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
</tr>
<tr>
<td>GHS Globally Harmonized System</td>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
</tr>
<tr>
<td>&gt;= Greater Than or Equal To</td>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
</tr>
<tr>
<td>IC50 Inhibition Concentration 50%</td>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act</td>
</tr>
<tr>
<td>IARC International Agency for Research on Cancer</td>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>IECSC Inventory of Existing Chemical Substances in China</td>
<td>TWA</td>
<td>Time Weighted Average</td>
</tr>
<tr>
<td>ENCS Japan, Inventory of Existing and New Chemical Substances</td>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
</tr>
<tr>
<td>KECI Korea, Existing Chemical Inventory</td>
<td>UVCB</td>
<td>Unknown or Variable Compositon, Complex Reaction Products, and Biological Materials</td>
</tr>
<tr>
<td>&lt;= Less Than or Equal To</td>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
</tr>
<tr>
<td>LC50</td>
<td></td>
<td>Lethal Concentration 50%</td>
</tr>
</tbody>
</table>