

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

PRIMER 903

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

1.1. Product identifier

Product name : PRIMER 903
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Primer

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Novatio*
Industrielaan 5B
B-2250 Olen
☎ +32 14 25 76 40
✉ +32 14 22 02 66
info@novatio.be
*NOVATIO is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V.
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
✉ +32 14 85 97 38
info@tec7.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class | Category | Hazard statements |
|-------------|------------|--|
| Aerosol | category 1 | H222: Extremely flammable aerosol. |
| Aerosol | category 1 | H229: Pressurised container: May burst if heated. |
| Acute Tox. | category 4 | H332: Harmful if inhaled. |
| STOT RE | category 2 | H373: May cause damage to organs (ears (hearing damage)) through prolonged or repeated exposure. |
| Skin Irrit. | category 2 | H315: Causes skin irritation. |

2.2. Label elements



Contains: xylene; ethylbenzene.

Signal word Danger

H-statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H332 Harmful if inhaled.
H373 May cause damage to organs (ears (hearing damage)) through prolonged or repeated exposure.
H315 Causes skin irritation.

P-statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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| | |
|---------------------------------|--|
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P280 | Wear protective gloves, protective clothing and eye protection/face protection. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F. |
| Supplemental information | |
| EUH208 | Contains: N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine. May produce an allergic reaction. |

2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name REACH Registration No | CAS No EC No | Conc. (C) | Classification according to CLP | Note | Remark |
|---|------------------------|-----------|---|------------|-------------|
| xylene 01-2119488216-32 | 1330-20-7 215-535-7 | 30%<C<50% | Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 | (1)(2)(10) | Constituent |
| ethylbenzene | 100-41-4 202-849-4 | 10%<C<20% | Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 | (1)(2)(10) | Constituent |
| dimethyl ether 01-2119472128-37 | 115-10-6 204-065-8 | 30%<C<50% | Flam. Gas 1; H220 Press. Gas - Liquefied gas; | (1)(2)(10) | Propellant |
| N-[3-(dimethoxymethylsilyl)propyl] ethylenediamine | 3069-29-2 221-336-6 | 0.5%<C<1% | Skin Sens. 1; H317 Eye Dam. 1; H318 | (1)(10) | Constituent |

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

If you feel unwell, seek medical advice.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Wash immediately with lots of water. Take victim to a doctor if irritation persists.

After eye contact:

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Central nervous system depression. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Headache. Dizziness. Narcosis. Coordination disorders. Disturbances of consciousness.

After skin contact:

Tingling/irritation of the skin.

After eye contact:

No effects known.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

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Revision number: 0702

Product number: 33061

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SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

BC powder. Carbon dioxide. Sand/earth.

5.1.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO₂ are formed.

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective goggles. Head/neck protection. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective goggles. Head/neck protection. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Dam up the liquid spill.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into a non combustible material e.g.: sand, earth, vermiculite. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe strict hygiene.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Keep only in the original container. Keep out of direct sunlight. Fireproof storeroom. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

Aerosol.

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

EU

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| | | |
|-----------------------------|---|------------------------|
| Dimethylether | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 1920 mg/m ³ |
| Ethylbenzene | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 100 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 442 mg/m ³ |
| | Short time value (Indicative occupational exposure limit value) | 200 ppm |
| | Short time value (Indicative occupational exposure limit value) | 884 mg/m ³ |
| Xylene, mixed isomers, pure | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 50 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 221 mg/m ³ |
| | Short time value (Indicative occupational exposure limit value) | 100 ppm |
| | Short time value (Indicative occupational exposure limit value) | 442 mg/m ³ |

Belgium

| | | |
|-------------------------------|--|------------------------|
| Ethylbenzène | Time-weighted average exposure limit 8 h | 100 ppm |
| | Time-weighted average exposure limit 8 h | 442 mg/m ³ |
| | Short time value | 125 ppm |
| | Short time value | 551 mg/m ³ |
| Oxyde de diméthyle | Time-weighted average exposure limit 8 h | 1000 ppm |
| | Time-weighted average exposure limit 8 h | 1920 mg/m ³ |
| Xylène, isomères mixtes, purs | Time-weighted average exposure limit 8 h | 50 ppm |
| | Time-weighted average exposure limit 8 h | 221 mg/m ³ |
| | Short time value | 100 ppm |
| | Short time value | 442 mg/m ³ |

The Netherlands

| | | |
|------------------------------|---|------------------------|
| Dimethylether | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 496 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 950 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 783 ppm |
| | Short time value (Public occupational exposure limit value) | 1500 mg/m ³ |
| Ethylbenzeen | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 49 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 215 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 97 ppm |
| | Short time value (Public occupational exposure limit value) | 430 mg/m ³ |
| Xyleen (o-,m- en p-isomeren) | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 48 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 210 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 100 ppm |
| | Short time value (Public occupational exposure limit value) | 442 mg/m ³ |

France

| | | |
|--------------------------------|--|------------------------|
| Ethylbenzène | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 20 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 88.4 mg/m ³ |
| | Short time value (VRC: Valeur réglementaire contraignante) | 100 ppm |
| | Short time value (VRC: Valeur réglementaire contraignante) | 442 mg/m ³ |
| Oxyde de diméthyle | Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative) | 1920 mg/m ³ |
| Xylènes, isomères mixtes, purs | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 50 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 221 mg/m ³ |
| | Short time value (VRC: Valeur réglementaire contraignante) | 100 ppm |
| | Short time value (VRC: Valeur réglementaire contraignante) | 442 mg/m ³ |

Germany

| | | |
|---------------|---|------------------------|
| Dimethylether | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 1900 mg/m ³ |
| Ethylbenzol | Time-weighted average exposure limit 8 h (TRGS 900) | 20 ppm |

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| | | |
|-------------|---|----------------------|
| Ethylbenzol | Time-weighted average exposure limit 8 h (TRGS 900) | 88 mg/m ³ |
|-------------|---|----------------------|

UK

| | | |
|-----------------------------------|---|-----------------------|
| Dimethyl ether | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 400 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 766 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 500 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 958 mg/m ³ |
| Ethylbenzene | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 100 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 441 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 125 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 552 mg/m ³ |
| Xylene, o-,m-,p- or mixed isomers | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 50 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 220 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 100 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 441 mg/m ³ |

USA (TLV-ACGIH)

| | | |
|----------------------|--|---------|
| Ethyl benzene | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 20 ppm |
| Xylene (all isomers) | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 100 ppm |
| | Short time value (TLV - Adopted Value) | 150 ppm |

b) National biological limit values

If limit values are applicable and available these will be listed below.

Germany

| | | | |
|---|---|--------------------|--|
| Ethylbenzol (Mandelsäure plus Phenylglyoxylsäure) | Urin: expositionsende, bzw. schichtende | 250 mg/g Kreatinin | 11/2016 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG |
|---|---|--------------------|--|

USA (BEI-ACGIH)

| | | | |
|---|---------------------|----------------------|--------------------------------|
| Ethyl benzene (Sum of mandelic acid and phenylglyoxylic acid) | Urine: end of shift | 0,15 g/g creatinine | Nonspecific - Intended changes |
| Ethyl benzene (Sum of mandelic acid and phenylglyoxylic acid) | Urine: end of shift | 0,15 mg/g creatinine | |

8.1.2 Sampling methods

| Product name | Test | Number |
|--|-------|--------|
| Ethyl Benzene (Hydrocarbons, Aromatic) | NIOSH | 1501 |
| Ethyl Benzene | OSHA | 1002 |
| Ethyl Benzene | OSHA | 7 |
| Xylene (Volatile Organic compounds) | NIOSH | 2549 |

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

DNEL/DMEL - Workers

xylene

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 77 mg/m ³ | |
| | Acute systemic effects inhalation | 289 mg/m ³ | |
| | Acute local effects inhalation | 289 mg/m ³ | |
| | Long-term systemic effects dermal | 180 mg/kg bw/day | |

ethylbenzene

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 77 mg/m ³ | |
| | Acute local effects inhalation | 293 mg/m ³ | |
| | Long-term systemic effects dermal | 180 mg/kg bw/day | |

N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 12 mg/m ³ | |
| | Acute systemic effects inhalation | 12 mg/m ³ | |
| | Long-term systemic effects dermal | 1.7 mg/kg bw/day | |
| | Acute systemic effects dermal | 1.7 mg/kg bw/day | |

DNEL/DMEL - General population

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xylene

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 14.8 mg/m ³ | |
| | Acute systemic effects inhalation | 174 mg/m ³ | |
| | Acute local effects inhalation | 174 mg/m ³ | |
| | Long-term systemic effects dermal | 108 mg/kg bw/day | |
| | Long-term systemic effects oral | 1.6 mg/kg bw/day | |

ethylbenzene

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 15 mg/m ³ | |
| | Long-term systemic effects oral | 1.6 mg/kg bw/day | |

N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 2.9 mg/m ³ | |
| | Acute systemic effects inhalation | 2.9 mg/m ³ | |
| | Long-term systemic effects dermal | 0.83 mg/kg bw/day | |
| | Acute systemic effects dermal | 0.83 mg/kg bw/day | |
| | Long-term systemic effects oral | 0.83 mg/kg bw/day | |
| | Acute systemic effects oral | 0.83 mg/kg bw/day | |

PNEC

xylene

| Compartments | Value | Remark |
|-----------------------|-------------------------|--------|
| Fresh water | 0.327 mg/l | |
| Marine water | 0.327 mg/l | |
| STP | 6.58 mg/l | |
| Fresh water sediment | 12.46 mg/kg sediment dw | |
| Marine water sediment | 12.46 mg/kg sediment dw | |
| Soil | 2.31 mg/kg soil dw | |

ethylbenzene

| Compartments | Value | Remark |
|------------------------------|------------------------|--------|
| Fresh water | 0.1 mg/l | |
| Marine water | 0.01 mg/l | |
| Aqua (intermittent releases) | 0.1 mg/l | |
| STP | 9.6 mg/l | |
| Fresh water sediment | 13.7 mg/kg sediment dw | |
| Marine water sediment | 1.37 mg/kg sediment dw | |
| Soil | 2.68 mg/kg soil dw | |
| Oral | 0.02 g/kg food | |

N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine

| Compartments | Value | Remark |
|------------------------------|-------------------------|--------|
| Fresh water | 0.062 mg/l | |
| Marine water | 0.0062 mg/l | |
| Aqua (intermittent releases) | 0.62 mg/l | |
| STP | 25 mg/l | |
| Fresh water sediment | 0.24 mg/kg sediment dw | |
| Marine water sediment | 0.024 mg/kg sediment dw | |
| Soil | 0.01 mg/kg soil dw | |

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly.

8.2.2 Individual protection measures, such as personal protective equipment

Observe strict hygiene. Do not eat, drink or smoke during work.

a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

b) Hand protection:

Gloves.

- materials (good resistance)

Butyl rubber.

c) Eye protection:

Protective goggles.

d) Skin protection:

Head/neck protection. Protective clothing.

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8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------|--|
| Physical form | Aerosol |
| Odour | Characteristic odour |
| Odour threshold | No data available |
| Colour | Colourless |
| Particle size | No data available |
| Explosion limits | 1.0 - 18.6 vol % ; Propellant |
| Flammability | Extremely flammable aerosol. |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | No data available |
| Kinematic viscosity | No data available |
| Melting point | No data available |
| Boiling point | No data available |
| Flash point | No data available |
| Evaporation rate | No data available |
| Relative vapour density | > 2 |
| Vapour pressure | 3900 hPa ; 20 °C |
| Solubility | Water ; insoluble |
| Relative density | 0.77 |
| Decomposition temperature | No data available |
| Auto-ignition temperature | No data available |
| Explosive properties | No chemical group associated with explosive properties |
| Oxidising properties | No chemical group associated with oxidising properties |
| pH | No data available |

9.2. Other information

| | |
|------------------|-----------|
| Absolute density | 771 kg/m³ |
|------------------|-----------|

SECTION 10: Stability and reactivity

10.1. Reactivity

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

10.2. Chemical stability

No data available.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Upon combustion: CO and CO2 are formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

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No (test)data on the mixture available

Classification is based on the relevant ingredients

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xylene

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|-----------------------------|---------------|---------------|------------|---------------------|--------|
| Oral | LD50 | Equivalent to EU Method B.1 | 3523 mg/kg bw | | Rat (male) | Experimental value | |
| Dermal | | | category 4 | | | Annex VI | |
| Inhalation (vapours) | | | category 4 | | | Annex VI | |

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

ethylbenzene

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|--------|----------------|---------------|-------------------|---------------------|--------|
| Oral | LD50 | | 3500 mg/kg | | Rat (male/female) | Experimental value | |
| Dermal | LD50 | | 15432 mg/kg bw | 24 h | Rabbit (male) | Experimental value | |
| Inhalation (vapours) | LC50 | | 17.8 mg/l | 4 h | Rat (male) | Experimental value | |

Conclusion

Harmful if inhaled.

Not classified as acute toxic in contact with skin

Not classified as acute toxic if swallowed

Corrosion/irritation

PRIMER 903

No (test)data on the mixture available

Classification is based on the relevant ingredients

xylene

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|----------------------|-----------------------|------------------|---------------|------------------|---------|---------------------|--------|
| Eye | Moderately irritating | Draize Test | | 24; 48; 72 hours | Rabbit | Experimental value | |
| Skin | Moderately irritating | Draize Skin Test | 24 h - 72 h | 24; 72 hours | Rabbit | Experimental value | |
| Inhalation (vapours) | Irritating | | 4 h | | Human | | |

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

ethylbenzene

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|-----------------------|--------|---------------|------------|---------|---------------------|--------|
| Eye | Slightly irritating | | | 7 days | Rabbit | Experimental value | |
| Skin | Moderately irritating | | 24 h | 24 hours | Rabbit | Experimental value | |

N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|--------------------|----------|---------------|------------|---------|---------------------|--------|
| Eye | Serious eye damage | OECD 405 | 30 minutes | | Rabbit | Experimental value | |

Conclusion

Causes skin irritation.

Not classified as irritating to the eyes

Respiratory or skin sensitisation

PRIMER 903

No (test)data on the mixture available

Judgement is based on the relevant ingredients

xylene

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|----------|---------------|------------------------|---------|---------------------|--------|
| Skin | Not sensitizing | OECD 429 | | | Mouse | Experimental value | |

ethylbenzene

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|-------------------|---------------|------------------------|---------|---------------------------------|--------|
| Skin | Not sensitizing | Human observation | | 48; 72 hours | Human | Inconclusive, insufficient data | |

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N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-------------|----------|---------------|------------------------|---------------------|---------------------|--------|
| Skin | Sensitizing | OECD 406 | | | Guinea pig (female) | Experimental value | |

Conclusion

Not classified as sensitizing for skin

Specific target organ toxicity

PRIMER 903

No (test)data on the mixture available

Classification is based on the relevant ingredients

xylene

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|--------------------------|--------------------------|-------|-------------|--------------------------------|--------------|---------------------|
| Oral (stomach tube) | LOAEL | Equivalent to OECD 408 | 150 mg/kg bw/day | Liver | Weight gain | 90 days (1x/day) | Rat (male) | Experimental value |
| Oral (stomach tube) | NOAEL | Equivalent to OECD 408 | 150 mg/kg bw/day | Liver | No effect | 90 days (1x/day) | Rat (female) | Experimental value |
| Inhalation (vapours) | NOAEC | Subchronic toxicity test | ≥ 3515 mg/m ³ | | No effect | 13 weeks (6h/day, 5 days/week) | Rat (male) | Experimental value |

ethylbenzene

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|------------------------|------------------|--------|------------------------------------|---------------------------------|---------------------|---------------------|
| Oral (stomach tube) | NOAEL | OECD 407 | 75 mg/kg bw/day | Liver | No effect | 28 day(s) | Rat (male/female) | Experimental value |
| Oral | NOAEL | OECD 408 | 75 mg/kg bw/day | Liver | No effect | 13 week(s) | Rat (male/female) | Experimental value |
| Oral | LOAEL | OECD 408 | 250 mg/kg bw/day | Liver | Enlargement/affection of the liver | 13 week(s) | Rat (male/female) | Experimental value |
| Inhalation | NOAEC | Equivalent to OECD 412 | 800 ppm | Liver | No effect | 4 weeks (6h/day, 5 days/week) | Mouse (male/female) | Experimental value |
| Inhalation (vapours) | NOAEC | Equivalent to OECD 453 | 250 ppm | | No effect | 4 weeks (6h/day, 5 days/week) | Rat (male) | Experimental value |
| Inhalation (vapours) | LOAEC | Equivalent to OECD 453 | 75 ppm | Kidney | Affection of the renal tissue | 104 weeks (6h/day, 5 days/week) | Rat (male/female) | Experimental value |

Due to differences in metabolism the relevance for humans if swallowed is questioned

Conclusion

May cause damage to organs (ears (hearing damage)) through prolonged or repeated exposure.

Mutagenicity (in vitro)

PRIMER 903

No (test)data on the mixture available

xylene

| Result | Method | Test substrate | Effect | Value determination |
|---|------------------------------|-----------------------------|--------|---------------------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to EU Method B.10 | Chinese hamster ovary (CHO) | | Experimental value |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to EU Method B.19 | Chinese hamster ovary (CHO) | | Experimental value |

ethylbenzene

| Result | Method | Test substrate | Effect | Value determination |
|---|------------------------|-------------------------------|-----------|---------------------|
| Negative with metabolic activation, negative without metabolic activation | OECD 476 | Mouse (lymphoma L5178Y cells) | No effect | Experimental value |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 473 | Chinese hamster ovary (CHO) | No effect | Experimental value |

Mutagenicity (in vivo)

PRIMER 903

No (test)data on the mixture available

Reason for revision: 2; 3

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xylene

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------|------------------------|---------------|---------------------|-------|---------------------|
| Negative | Equivalent to OECD 478 | | Mouse (male/female) | | Experimental value |

ethylbenzene

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------|----------|---------------|---------------------|-------|---------------------|
| Negative | OECD 486 | 6 h | Mouse (male/female) | | Experimental value |
| Negative | OECD 474 | 48 h | Mouse (male) | | Experimental value |

Carcinogenicity

PRIMER 903

No (test)data on the mixture available

Judgement is based on the relevant ingredients

xylene

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|-------------------|------------|------------------------------|--------------------|-------------------------|-------------------|------------------------|-------|---------------------|
| Oral | Dose level | Equivalent to EU Method B.32 | ≥ 500 mg/kg bw/day | 103 weeks (5 days/week) | Rat (male/female) | No carcinogenic effect | | Experimental value |

ethylbenzene

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|----------------------|-----------|------------------------|---------|---------------------------------|-------------------|------------------------|-------|---------------------|
| Inhalation (vapours) | NOAEC | Equivalent to OECD 453 | 250 ppm | 104 weeks (6h/day, 5 days/week) | Rat (male/female) | No carcinogenic effect | | Experimental value |

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

PRIMER 903

No (test)data on the mixture available

Judgement is based on the relevant ingredients

xylene

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|------------------------|------------|------------------------|-----------|------------------|-------------------|-----------|-------|---------------------|
| Developmental toxicity | NOAEC | Equivalent to OECD 414 | 100 ppm | 15 days (6h/day) | Rat (male/female) | No effect | | Experimental value |
| Maternal toxicity | NOAEC | OECD 414 | 500 ppm | 15 days (6h/day) | Rat | No effect | | Experimental value |
| Effects on fertility | NOAEC (P) | EPA OPPTS 870.3800 | ≥ 500 ppm | 70 days (6h/day) | Rat (male/female) | No effect | | Experimental value |
| | NOAEC (F1) | EPA OPPTS 870.3800 | ≥ 500 ppm | 70 days (6h/day) | Rat (male/female) | No effect | | Experimental value |

ethylbenzene

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|------------------------|-----------------|------------------------|----------|----------------------------|-------------------|-----------|--------|---------------------|
| Developmental toxicity | NOAEC | OECD 414 | 500 ppm | 15 days (gestation, daily) | Rat (female) | No effect | Foetus | Experimental value |
| Maternal toxicity | NOAEC | OECD 414 | 500 ppm | 15 days (gestation, daily) | Rat | No effect | | Experimental value |
| Effects on fertility | NOAEC (P/F1/F2) | OECD 416 | 500 ppm | 70 days (6h/day) | Rat (male/female) | No effect | | Experimental value |
| | NOAEC (P) | Equivalent to OECD 415 | 1000 ppm | 2 week(s) | Rat (male/female) | No effect | | Experimental value |

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

PRIMER 903

No (test)data on the mixture available

Chronic effects from short and long-term exposure

PRIMER 903

Reason for revision: 2; 3

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ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Auditory disturbances.

SECTION 12: Ecological information

12.1. Toxicity

PRIMER 903

No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

xylene

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|------------|-----------|----------------------------------|---------------------|------------------|---------------------------------|
| Acute toxicity fishes | LC50 | OECD 203 | 2.6 mg/l | 96 h | Oncorhynchus mykiss | Static system | Fresh water | Read-across; Lethal |
| Acute toxicity crustacea | EC50 | | 3.82 mg/l | 48 h | Daphnia magna | Flow-through system | Fresh water | Read-across |
| Toxicity algae and other aquatic plants | EC50 | OECD 201 | 4.36 mg/l | 73 h | Pseudokirchneria lla subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity fish | NOEC | | > 1.3 mg/l | 56 day(s) | Oncorhynchus mykiss | Flow-through system | Fresh water | Experimental value; Lethal |
| Long-term toxicity aquatic crustacea | NOEC | US EPA | 1.17 mg/l | 7 day(s) | Ceriodaphnia dubia | | Fresh water | Read-across; Reproduction |

ethylbenzene

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|--------------|---------------------|------------|----------------------------------|--------------------|------------------|----------------------------------|
| Acute toxicity fishes | LC50 | OECD 203 | 4.2 mg/l | 96 h | Salmo gairdneri | Semi-static system | Fresh water | Experimental value |
| Acute toxicity crustacea | EC50 | US EPA | 1.8 mg/l - 2.4 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value |
| Toxicity algae and other aquatic plants | EC50 | US EPA | 5.4 mg/l | 72 h | Pseudokirchneria lla subcapitata | Static system | Fresh water | Experimental value; Cell numbers |
| Long-term toxicity fish | ChV | ECOSAR v1.00 | 1.13 mg/l | 30 day(s) | Pisces | | | QSAR |
| Long-term toxicity aquatic crustacea | NOEC | US EPA | 0.96 mg/l | 7 day(s) | Ceriodaphnia dubia | Semi-static system | Fresh water | Experimental value; Reproduction |
| Toxicity aquatic micro-organisms | EC50 | OECD 209 | 600 mg/l | 30 minutes | Activated sludge | | | Experimental value |

| | Parameter | Method | Value | Duration | Species | Value determination |
|-------------------------------|-----------|----------|---|----------|----------------|---------------------|
| Toxicity soil macro-organisms | LC50 | OECD 207 | 0.042 mg/cm ² - 0.053 mg/cm ² | 48 h | Eisenia fetida | Experimental value |

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

xylene

Biodegradation water

| Method | Value | Duration | Value determination |
|----------------------------------|-------|-----------|---------------------|
| OECD 301: Ready Biodegradability | 100 % | 12 day(s) | Experimental value |

ethylbenzene

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|------------------|-----------|---------------------|
| ISO 14593 | 70 % - 80 %; GLP | 28 day(s) | Experimental value |

Half-life soil (t_{1/2} soil)

| Method | Value | Primary degradation/mineralisation | Value determination |
|--------|----------------------|------------------------------------|---------------------|
| | 3 day(s) - 10 day(s) | | Literature study |

Conclusion

Contains readily biodegradable component(s)

12.3. Bioaccumulative potential

PRIMER 903

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------------------------|-------|-------------|---------------------|
| | Not applicable (mixture) | | | |

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xylene

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|--------|-----------|---------------------|---------------------|
| BCF | | 7 - 26 | 8 week(s) | Oncorhynchus mykiss | Experimental value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|-----------------------|
| | | 3.2 | 20 °C | Conclusion by analogy |

ethylbenzene

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|---------|-----------|----------------------|---------------------|
| BCF | Other | 1 - 2.4 | 6 week(s) | Oncorhynchus kisutch | Experimental value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|---------------|--------|-------|-------------|---------------------|
| EU Method A.8 | | 3.6 | 20 °C | Experimental value |

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

ethylbenzene

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|----------------|-------|---------------------|
| log Koc | PCKOCWIN v1.66 | 2.71 | QSAR |

Volatility (Henry's Law constant H)

| Value | Method | Temperature | Remark | Value determination |
|---------------------------------|--------|-------------|--------|---------------------|
| 0.00843 atm m ³ /mol | | 25 °C | | Experimental value |

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|----------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level I | 99.45 % | | 0.05 % | 0.05 % | 0.45 % | Calculated value |

Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Other adverse effects

PRIMER 903

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

xylene

Groundwater

Groundwater pollutant

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 01 11* (wastes from MFSU and removal of paint and varnish: waste paint and varnish containing organic solvents or other hazardous substances).

Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Recycle/reuse. Remove waste in accordance with local and/or national regulations. Specific treatment. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Should not be landfilled with household waste. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

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SECTION 14: Transport information

Road (ADR)

| | | |
|------------------------------------|--|--|
| 14.1. UN number | UN number | 1950 |
| 14.2. UN proper shipping name | Proper shipping name | Aerosols |
| 14.3. Transport hazard class(es) | Hazard identification number | |
| | Class | 2 |
| | Classification code | 5F |
| 14.4. Packing group | Packing group | |
| | Labels | 2.1 |
| 14.5. Environmental hazards | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | 190 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 625 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Rail (RID)

| | | |
|------------------------------------|--|--|
| 14.1. UN number | UN number | 1950 |
| 14.2. UN proper shipping name | Proper shipping name | Aerosols |
| 14.3. Transport hazard class(es) | Hazard identification number | 23 |
| | Class | 2 |
| | Classification code | 5F |
| 14.4. Packing group | Packing group | |
| | Labels | 2.1 |
| 14.5. Environmental hazards | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | 190 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 625 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Inland waterways (ADN)

| | | |
|------------------------------------|--|--|
| 14.1. UN number | UN number | 1950 |
| 14.2. UN proper shipping name | Proper shipping name | Aerosols |
| 14.3. Transport hazard class(es) | Class | 2 |
| | Classification code | 5F |
| 14.4. Packing group | Packing group | |
| | Labels | 2.1 |
| 14.5. Environmental hazards | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | 190 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 625 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Sea (IMDG/IMSBC)

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| | | |
|--|--|--|
| 14.1. UN number | UN number | 1950 |
| 14.2. UN proper shipping name | Proper shipping name | Aerosols |
| 14.3. Transport hazard class(es) | Class | 2.1 |
| 14.4. Packing group | Packing group | |
| | Labels | 2.1 |
| 14.5. Environmental hazards | Marine pollutant | - |
| | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | 63 |
| | Special provisions | 190 |
| | Special provisions | 277 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 381 |
| | Special provisions | 959 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code | Annex II of MARPOL 73/78 | Not applicable |

Air (ICAO-TI/IATA-DGR)

| | | |
|------------------------------------|--|---------------------|
| 14.1. UN number | UN number | 1950 |
| 14.2. UN proper shipping name | Proper shipping name | Aerosols, flammable |
| 14.3. Transport hazard class(es) | Class | 2.1 |
| 14.4. Packing group | Packing group | |
| | Labels | 2.1 |
| 14.5. Environmental hazards | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | A145 |
| | Special provisions | A167 |
| | Special provisions | A802 |
| | Limited quantities: maximum net quantity per packaging | 30 kg G |

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

| VOC content | Remark |
|-------------|--------|
| 99.49 % | |

Indicative occupational exposure limit values (Directive 98/24/EC, 2000/39/EC and 2009/161/EU)

| Product name | Skin resorption |
|-----------------------------|-----------------|
| Ethylbenzene | Skin |
| Xylene, mixed isomers, pure | Skin |

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

| | Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|---|--|---|
| ethylbenzene N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine | Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A | 1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: |

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| | | |
|----------------------------|---|---|
| | to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. | — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: “Keep lamps filled with this liquid out of the reach of children”; and, by 1 December 2010, “Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage”; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: “Just a sip of grill lighter may lead to life threatening lung damage”; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. 6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public. 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.’ |
| · xylene · ethylbenzene | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not. | 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: — metallic glitter intended mainly for decoration, — artificial snow and frost, — “whoopie” cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs. 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: “For professional users only”. 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC. 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated. |

National legislation Belgium

PRIMER 903

No data available

xylene

| | |
|-----------------|--|
| Résorption peau | Xylène, isomères mixtes, purs; D; La mention “D” signifie que la résorption de l’agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l’exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l’agent dans l’air. |
|-----------------|--|

ethylbenzene

| | |
|-----------------|---|
| Résorption peau | Ethylbenzène; D; La mention “D” signifie que la résorption de l’agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l’exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l’agent dans l’air. |
|-----------------|---|

National legislation The Netherlands

PRIMER 903

| | |
|----------------------|-------|
| Waterbezwaarlijkheid | B (2) |
|----------------------|-------|

xylene

| | |
|--|--|
| Huidopname (wettelijk) | Xyleen (o-,m- en p-isomeren); H |
| SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling) | xyleen; 2; Suspected of damaging the unborn child. |

ethylbenzene

| | |
|------------------------|-----------------|
| Huidopname (wettelijk) | Ethylbenzeen; H |
|------------------------|-----------------|

National legislation France

PRIMER 903

No data available

xylene

| | |
|----------------------------------|------------------------------------|
| Risque de pénétration percutanée | Xylènes, isomères mixtes, purs; PP |
|----------------------------------|------------------------------------|

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ethylbenzene

| | |
|----------------------------------|------------------|
| Risque de pénétration percutanée | Ethylbenzène; PP |
|----------------------------------|------------------|

National legislation Germany

PRIMER 903

| | |
|-----|---|
| WGK | 2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4) |
|-----|---|

xylene

| | |
|---------|----------|
| TA-Luft | 5.2.5; I |
|---------|----------|

ethylbenzene

| | |
|---------------------------------------|--|
| TA-Luft | 5.2.5; I |
| TRGS900 - Risiko der Fruchtschädigung | Ethylbenzol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |
| Hautresorptive Stoffe | Ethylbenzol; H; Hautresorptiv |

National legislation United Kingdom

PRIMER 903

No data available

xylene

| | |
|-----------------|---------------------------------------|
| Skin absorption | Xylene, o-,m-,p- or mixed isomers; Sk |
|-----------------|---------------------------------------|

ethylbenzene

| | |
|-----------------|------------------|
| Skin absorption | Ethylbenzene; Sk |
|-----------------|------------------|

Other relevant data

PRIMER 903

No data available

xylene

| | |
|-----------------------|--------------------------|
| IARC - classification | 3; Xylenes |
| TLV - Carcinogen | Xylene (all isomers); A4 |

ethylbenzene

| | |
|-----------------------|-------------------|
| IARC - classification | 2B; Ethylbenzene |
| TLV - Carcinogen | Ethyl benzene; A3 |

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H-statements referred to under heading 3:

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H229 Pressurised container: May burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H373 May cause damage to organs (ears (hearing damage)) through prolonged or repeated exposure.

| | |
|--------------|--|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC50 | Effect Concentration 50 % |
| ErC50 | EC50 in terms of reduction of growth rate |
| LC50 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| NOAEL | No Observed Adverse Effect Level |
| NOEC | No Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent, Bioaccumulative & Toxic |
| PNEC | Predicted No Effect Concentration |
| STP | Sludge Treatment Process |
| vPvB | very Persistent & very Bioaccumulative |

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