



Carburateur Cleaner

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Date of issue: 12/14/2018 Revision date: 12/14/2018 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Name : Carburateur Cleaner
Product code : 1110
Article number : 1110B

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Consumer use
Function or use category : Fuel additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

BARDAHL NL - OCD NEDERLAND BV
Maxwellstraat 41
3316 GP Dordrecht - Nederland
T 0031 78 651 2322 - F 0031 78 617 4848
rjionker@bardahl.nl - www.bardahl.nl

1.4. Emergency telephone number

Emergency number : +31 (0) 6 2908 2010
During office hours: 8.30 t/m 17:00 h

| Country | Official advisory body | Address | Emergency number | Comment |
|----------------|---|--|--|---------|
| | Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road SE14 5ER London | 0870 243 2241 | |
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| Israel | Israel Poison Information Center Rambam Health Care Campus | 6 Ha'Aliya Street 31096 Haifa | +972 4 854 1900 | |
| Malta | Medicines & Poisons Info Office | Mater Dei Hospital MSD Msida | +356 2545 6504 | |
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH Birmingham | 0344 892 0111 | |
| United Kingdom | National Poisons Information Service (Belfast Centre) Royal Victoria Hospital | Grosvenor Road BT12 6BA Belfast | 0344 892 0111 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226
Acute toxicity (dermal), Category 4 H312
Acute toxicity (inhalation:dust,mist) Category 4 H332
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Specific target organ toxicity — Single exposure, Category 3,
Respiratory tract irritation H335
Specific target organ toxicity — Repeated exposure, Category 2 H373
Aspiration hazard, Category 1 H304
Full text of H statements : see section 16

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02

GHS07

GHS08

Signal word (CLP)

: Danger

Hazardous ingredients

: Xylene; ethylbenzene

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H312+H332 - Harmful in contact with skin or if inhaled.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H373 - May cause damage to organs (liver, kidneys, central nervous system) through prolonged or repeated exposure (if inhaled).

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames, Sources of ignition. No smoking.
P233 - Keep container tightly closed.
P260 - Do not breathe vapours.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 - Do NOT induce vomiting.
P302+P352 - IF ON SKIN: Wash with plenty of water/....
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER/doctor if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to a facility for the collection of hazardous or special waste.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------|---|----------|--|
| Xylene | (CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index-No.) 601-022-00-9 (REACH-no) 01-2119488216-32 | 80 - 100 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 |
| ethylbenzene | (CAS-No.) 100-41-4 (EC-No.) 202-849-4 (EC Index-No.) 601-023-00-4 (REACH-no) 01-2119489370-35 | 10 - 20 | Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304 |

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| | | | |
|-------------|--|--------|--|
| toluene | (CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3 (REACH-no) 01-2119471310-51 | <= 0.1 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 |
| naphthalene | (CAS-No.) 91-20-3 (EC-No.) 202-049-5 (EC Index-No.) 601-052-00-2 | <= 0.1 | Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand. |
| First-aid measures after inhalation | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| First-aid measures after skin contact | : Take off contaminated clothing. Wash skin with plenty of water. Wash contaminated clothing before reuse. |
| First-aid measures after eye contact | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| First-aid measures after ingestion | : Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. |

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

| | |
|-------------------------------------|--|
| Symptoms/effects after inhalation | : Harmful if inhaled. May cause irritation to the respiratory tract. |
| Symptoms/effects after skin contact | : Harmful in contact with skin. Causes skin irritation. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. |
| Symptoms/effects after ingestion | : May be fatal if swallowed and enters airways. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing media | : Carbon dioxide. Powder. Water haze. Foam. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Fire hazard | : Flammable liquid and vapour. |
| Hazardous decomposition products in case of fire | : Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Exercise caution when fighting any chemical fire. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| Other information | : Prevent liquid from entering sewers, watercourses, underground or low areas. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|--|
| General measures | : Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation, especially in confined areas. |
|------------------|--|

6.1.1. For non-emergency personnel

| | |
|----------------------|--------------------------------------|
| Emergency procedures | : Keep public away from danger area. |
|----------------------|--------------------------------------|

6.1.2. For emergency responders

| | |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection. |
|----------------------|--|

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Dam up the liquid spill.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| Methods for cleaning up | : Clean up any spills as soon as possible, using an absorbent material to collect it. |
|-------------------------|---|

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13: "Disposal considerations".

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-----------------------------------|--|
| Additional hazards when processed | : Flammable liquid and vapour. |
| Precautions for safe handling | : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash clothing before re-using. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------|---|
| Storage conditions | : Store in dry, cool, well-ventilated area. Keep in original containers. Keep container tightly closed. |
| Incompatible materials | : Freezing. Open flame. Sources of ignition. |

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| ethylbenzene (100-41-4) | | |
|-------------------------|---|--|
| EU | IOELV TWA (mg/m ³) | 442 mg/m ³ (Ethylbenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV TWA (ppm) | 100 ppm (Ethylbenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV STEL (mg/m ³) | 884 mg/m ³ (Ethylbenzene; EU; Short time value; Indicative occupational exposure limit value) |
| EU | IOELV STEL (ppm) | 200 ppm (Ethylbenzene; EU; Short time value; Indicative occupational exposure limit value) |
| Belgium | Limit value (mg/m ³) | 442 mg/m ³ (Ethylbenzène; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Limit value (ppm) | 100 ppm (Ethylbenzène; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Short time value (mg/m ³) | 551 mg/m ³ (Ethylbenzène; Belgium; Short time value) |
| Belgium | Short time value (ppm) | 125 ppm (Ethylbenzène; Belgium; Short time value) |
| France | VME (mg/m ³) | 88.4 mg/m ³ (Ethylbenzène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| France | VME (ppm) | 20 ppm (Ethylbenzène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| France | VLE (mg/m ³) | 442 mg/m ³ (Ethylbenzène; France; Short time value; VRC: Valeur réglementaire contraignante) |
| France | VLE (ppm) | 100 ppm (Ethylbenzène; France; Short time value; VRC: Valeur réglementaire contraignante) |
| Germany | TRGS 910 Acceptable concentration notes | |
| Greece | OEL TWA (mg/m ³) | 435 mg/m ³ |
| Greece | OEL TWA (ppm) | 100 ppm |
| Greece | OEL STEL (mg/m ³) | 545 mg/m ³ |
| Greece | OEL STEL (ppm) | 125 ppm |
| Italy | Local name | Etilbenzene |
| Italy | OEL TWA (mg/m ³) | 442 mg/m ³ |
| Italy | OEL TWA (ppm) | 100 ppm |
| Italy | OEL STEL (mg/m ³) | 884 mg/m ³ |
| Italy | OEL STEL (ppm) | 200 ppm |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 215 mg/m ³ (Ethylbenzeen; Netherlands; Timeweighted average exposure limit 8 h; Public occupational exposure limit value) |

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| ethylbenzene (100-41-4) | | |
|-------------------------|--|--|
| Netherlands | Grenswaarde TGG 8H (ppm) | 49 ppm (Ethylbenzeen; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 430 mg/m ³ (Ethylbenzeen; Netherlands; Short time value; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 15MIN (ppm) | 97 ppm (Ethylbenzeen; Netherlands; Short time value; Public occupational exposure limit value) |
| Spain | Local name | Etilbenceno |
| Spain | VLA-ED (mg/m ³) | 441 mg/m ³ |
| Spain | VLA-ED (ppm) | 100 ppm |
| Spain | VLA-EC (mg/m ³) | 884 mg/m ³ |
| Spain | VLA-EC (ppm) | 200 ppm |
| Spain | Notes | Vía dérmica: (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento.), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento.) , VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.) |
| United Kingdom | WEL TWA (mg/m ³) | 441 mg/m ³ Ethylbenzene; United Kingdom; Timeweighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL TWA (ppm) | 100 ppm Ethylbenzene; United Kingdom; Timeweighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (mg/m ³) | 552 mg/m ³ Ethylbenzene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (ppm) | 125 ppm Ethylbenzene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| USA - ACGIH | Local name | Ethyl benzene |
| USA - ACGIH | ACGIH TWA (ppm) | 20 ppm |
| USA - ACGIH | Remark (ACGIH) | URT irr; kidney dam (nephropathy) |

| toluene (108-88-3) | | |
|--------------------|----------------------------------|---|
| EU | IOELV TWA (mg/m ³) | 192 mg/m ³ (Toluene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV TWA (ppm) | 50 ppm (Toluene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value) |
| EU | IOELV STEL (mg/m ³) | 384 mg/m ³ (Toluene; EU; Short time value; Indicative occupational exposure limit value) |
| EU | IOELV STEL (ppm) | 100 ppm (Toluene; EU; Short time value; Indicative occupational exposure limit value) |
| Belgium | Limit value (mg/m ³) | 77 mg/m ³ Toluène; Belgium; Time-weighted average exposure limit 8 h) |

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| toluene (108-88-3) | | |
|--------------------|--|--|
| Belgium | Limit value (ppm) | 20 ppm (Toluène; Belgium; Time-weighted average exposure limit 8 h) |
| Belgium | Short time value (mg/m ³) | 384 mg/m ³ (Toluène; Belgium; Short time value) |
| Belgium | Short time value (ppm) | 100 ppm (Toluène; Belgium; Short time value) |
| France | VME (mg/m ³) | 76.8 mg/m ³ (Toluène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| France | VME (ppm) | 20 ppm (Toluène; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante) |
| France | VLE (mg/m ³) | 384 mg/m ³ (Toluène; France; Short time value; VRC: Valeur réglementaire contraignante) |
| France | VLE (ppm) | 100 ppm (Toluène; France; Short time value; VRC: Valeur réglementaire contraignante) |
| Germany | TRGS 910 Acceptable concentration notes | |
| Greece | OEL TWA (mg/m ³) | 192 mg/m ³ |
| Greece | OEL TWA (ppm) | 50 ppm |
| Greece | OEL STEL (mg/m ³) | 384 mg/m ³ |
| Greece | OEL STEL (ppm) | 100 ppm |
| Italy | Local name | Toluene |
| Italy | OEL TWA (mg/m ³) | 192 mg/m ³ |
| Italy | OEL TWA (ppm) | 39 ppm |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 150 mg/m ³ (Toluene; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 8H (ppm) | 39 ppm (Toluene; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 384 mg/m ³ (Toluene; Netherlands; Short time value; Public occupational exposure limit value) |
| Netherlands | Grenswaarde TGG 15MIN (ppm) | 100 ppm (Toluene; Netherlands; Short time value; Public occupational exposure limit value) |
| Spain | Local name | Tolueno |
| Spain | VLA-ED (mg/m ³) | 192 mg/m ³ |
| Spain | VLA-ED (ppm) | 50 ppm |
| Spain | VLA-EC (mg/m ³) | 384 mg/m ³ |
| Spain | VLA-EC (ppm) | 100 ppm |

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toluene (108-88-3)

| | | |
|----------------|------------------|---|
| Spain | Notes | Vía dérmica: (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento.), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento.), VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país.), r (Esta sustancia tiene establecidas restricciones a la fabricación, la comercialización o el uso en los términos especificados en el "Reglamento (CE) nº 1907/2006 sobre Registro, Evaluación, Autorización y Restricción de sustancias y preparados químicos" (REACH) de 18 de diciembre de 2006 (DOUE L 369 de 30 de diciembre de 2006). Las restricciones de una sustancia pueden aplicarse a todos los usos o sólo a usos concretos. El anexo XVII del Reglamento REACH contiene la lista de todas las sustancias restringidas y especifica los usos que se han restringido.) |
| United Kingdom | WEL TWA (mg/m³) | 191 mg/m³ Toluene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL TWA (ppm) | 50 ppm Toluene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (mg/m³) | 384 mg/m³ Toluene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (ppm) | 100 ppm Toluene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| USA - ACGIH | Local name | Toluene |
| USA - ACGIH | ACGIH TWA (ppm) | 20 ppm |
| USA - ACGIH | Remark (ACGIH) | Visual impair; female repro; |

naphthalene (91-20-3)

| | | |
|----------|----------------------------------|-----------------|
| EU | IOELV TWA (mg/m³) | 52 mg/m³ |
| EU | IOELV TWA (ppm) | 10 ppm |
| EU | IOELV STEL (mg/m³) | 79 mg/m³ |
| EU | IOELV STEL (ppm) | 15 ppm |
| Austria | MAK (mg/m³) | 50 mg/m³ |
| Belgium | Limit value (mg/m³) | 50 mg/m³ |
| Belgium | Short time value (mg/m³) | 53 mg/m³ |
| Bulgaria | OEL TWA (mg/m³) | 50 mg/m³ 8h |
| Bulgaria | OEL STEL (mg/m³) | 75 mg/m³ 15 min |
| Denmark | Grænseværdie (kortvarig) (mg/m³) | 50 mg/m³ |
| Finland | HTP-arvo (8h) (mg/m³) | 5 mg/m³ |
| Finland | HTP-arvo (15 min) | 100 mg/m³ |
| France | VME (mg/m³) | 50 mg/m³ |
| France | VME (ppm) | 10 ppm |

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| naphthalene (91-20-3) | | |
|-----------------------|---|---------------------------|
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 50 mg/m ³ |
| Germany | TRGS 910 Acceptable concentration notes | |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 50 mg/m ³ |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 80 mg/m ³ |
| United Kingdom | WEL TWA (mg/m ³) | 50 mg/m ³ |
| USA - ACGIH | ACGIH TWA (mg/m ³) | 10 mg/m ³ |
| USA - ACGIH | ACGIH STEL (mg/m ³) | 15 fibers/cm ³ |

8.2. Exposure controls

Personal protective equipment:

Gloves. Safety glasses. Gas mask.

Hand protection:

Wear suitable gloves tested to EN374

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|---------------|----------------------|-------------------|----------------|-------------|------------|
| Safety gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | | 3 (> 0.65) | EN ISO 374 |

Eye protection:

Use eye protection according to EN 166, designed to protect against liquid splashes.

| Type | Use | Characteristics | Standard |
|----------------|----------------|-------------------|----------|
| Safety glasses | Splash goggles | With side shields | EN 166 |

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Ventilate area. In case of inadequate ventilation wear respiratory protection.

| Device | Filter type | Condition | Standard |
|---------------------|-------------------|-----------------------------------|----------|
| Breathing apparatus | Gas/vapour filter | Gas protection, Vapour protection | |

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------|
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Colour | : No data available |
| Odour | : No data available |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 27 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |

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| | |
|----------------------|--------------------------------|
| Relative density | : No data available |
| Solubility | : No data available |
| Log Pow | : No data available |
| Viscosity, kinematic | : > 20 mm ² /s 40°C |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Open flame. Sparks. Heat. Water, humidity. Freezing.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|---|
| Acute toxicity (oral) | : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008 |
| Acute toxicity (dermal) | : Harmful in contact with skin. |
| Acute toxicity (inhalation) | : Harmful if inhaled. |

| | |
|---------------------|---------------------------|
| ATE CLP (dermal) | 1222.222 mg/kg bodyweight |
| ATE CLP (dust,mist) | 1.5 mg/l/4h |

ethylbenzene (100-41-4)

| | |
|----------------------------|--------------|
| LD50 oral rat | 3500 mg/kg |
| LD50 dermal rabbit | 15415 mg/kg |
| LC50 inhalation rat (mg/l) | 17.8 mg/l/4h |
| LC50 inhalation rat (ppm) | 4000 ppm/4h |

toluene (108-88-3)

| | |
|----------------------------|--------------|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rabbit | 12223 mg/kg |
| LC50 inhalation rat (mg/l) | > 20 mg/l/4h |

naphthalene (91-20-3)

| | |
|-----------------|--------------|
| LD50 oral rat | 2600 mg/kg |
| LD50 dermal rat | > 2500 mg/kg |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008 |
| Germ cell mutagenicity | : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008 |
| Carcinogenicity | : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008 |

toluene (108-88-3)

| | |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

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| | |
|------------------------|--|
| Reproductive toxicity | : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008 |
| STOT-single exposure | : May cause respiratory irritation. |
| STOT-repeated exposure | : May cause damage to organs (liver, kidneys, central nervous system) through prolonged or repeated exposure (if inhaled). |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |

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| | |
|----------------------|------------------------------|
| Viscosity, kinematic | > 20 mm ² /s 40°C |
|----------------------|------------------------------|

SECTION 12: Ecological information

12.1. Toxicity

| | |
|--------------------------|---|
| Acute aquatic toxicity | : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008 |
| Chronic aquatic toxicity | : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008 |

ethylbenzene (100-41-4)

| | |
|-------------|----------|
| LC50 fish 2 | 4.2 mg/l |
|-------------|----------|

toluene (108-88-3)

| | |
|-------------------------|---|
| LC50 fish 1 | 24 mg/l <i>Salmo gairdneri</i> (<i>Oncorhynchus mykiss</i>) |
| LC50 fish 2 | 13 mg/l <i>Lepomis macrochirus</i> |
| EC50 Daphnia 1 | 84 mg/l Locomotor effect |
| EC50 Daphnia 2 | 11.5 - 19.6 mg/l |
| Threshold limit algae 1 | > 400 mg/l <i>Scenedesmus quadricauda</i> ; toxicity test |
| Threshold limit algae 2 | 105 mg/l <i>Microcystis aeruginosa</i> |

naphthalene (91-20-3)

| | |
|----------------|-----------|
| LC50 fish 1 | 0.51 mg/l |
| EC50 Daphnia 1 | 3.4 mg/l |

12.2. Persistence and degradability

ethylbenzene (100-41-4)

| | |
|---------------------------------|------------------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biochemical oxygen demand (BOD) | 1.44 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.1 g O ₂ /g substance |
| ThOD | 3.17 g O ₂ /g substance |
| BOD (% of ThOD) | 45.4 % ThOD |

toluene (108-88-3)

| | |
|---------------------------------|------------------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biochemical oxygen demand (BOD) | 2.15 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.52 g O ₂ /g substance |
| ThOD | 3.13 g O ₂ /g substance |
| BOD (% of ThOD) | 0.69 % ThOD |

naphthalene (91-20-3)

| | |
|-------------------------------|---------------------------|
| Persistence and degradability | Inherently biodegradable. |
|-------------------------------|---------------------------|

12.3. Bioaccumulative potential

ethylbenzene (100-41-4)

| | |
|-------------------------------|---------|
| BCF fish 1 | 1 |
| BCF fish 2 | 15 - 79 |
| BCF other aquatic organisms 1 | 4.68 |

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| | |
|-------------------------------------|-------|
| Bioconcentration factor (BCF REACH) | < 500 |
| Log Pow | 3.15 |

toluene (108-88-3)

| | |
|-------------------------------|---------------------------------------|
| BCF fish 1 | 13.2 Anguilla japonica |
| BCF fish 2 | 90 72h; Leuciscus idus |
| BCF other aquatic organisms 1 | 380 24h; Chlorella sp; Fresh weight |
| BCF other aquatic organisms 2 | 4.2 4.2; Mytilus edulis; Fresh weight |
| Log Pow | 2.73 Experimental value |
| Bioaccumulative potential | Low. |

12.4. Mobility in soil

ethylbenzene (100-41-4)

| | |
|-----------------|--|
| Surface tension | 0.029 N/m |
| Log Koc | PCKOCWIN v1.66; 2.71; Calculated value; Koc; PCKOCWIN v1.66; 517.8; Calculated value |

toluene (108-88-3)

| | |
|-----------------|-----------------|
| Surface tension | 0.03 N/m (20°C) |
|-----------------|-----------------|

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods






Product/Packaging disposal recommendations : Dispose of this material and its container to hazardous or special waste collection point. Do not empty into drains. Collect all waste in suitable and labelled containers and dispose according to local legislation.

Additional information : Empty the packaging completely prior to disposal. Do not re-use empty containers.

Ecology - waste materials : Do not discharge the product into the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| 14.1. UN number | | | | |
| UN 1993 | UN 1993 | UN 1993 | UN 1993 | UN 1993 |
| 14.2. UN proper shipping name | | | | |
| FLAMMABLE LIQUID, N.O.S. | FLAMMABLE LIQUID, N.O.S. | Flammable liquid, n.o.s. | FLAMMABLE LIQUID, N.O.S. | FLAMMABLE LIQUID, N.O.S. |
| Transport document description | | | | |
| UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III, (D/E) | UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III | UN 1993 Flammable liquid, n.o.s., 3, III | UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III | UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III |
| 14.3. Transport hazard class(es) | | | | |
| 3 | 3 | 3 | 3 | 3 |
|  |  |  |  |  |
| 14.4. Packing group | | | | |
| III | III | III | III | III |

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14.5. Environmental hazards

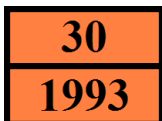
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
|------------------------------------|---|------------------------------------|------------------------------------|------------------------------------|
|------------------------------------|---|------------------------------------|------------------------------------|------------------------------------|

Clean up even minor leaks or spills if possible without unnecessary risk

14.6. Special precautions for user

Overland transport

| | |
|---|---------------------------|
| Classification code (ADR) | : F1 |
| Special provisions (ADR) | : 274, 601 |
| Limited quantities (ADR) | : 5I |
| Excepted quantities (ADR) | : E1 |
| Packing instructions (ADR) | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | : T4 |
| Portable tank and bulk container special provisions (ADR) | : TP1, TP29 |
| Tank code (ADR) | : LGBF |
| Vehicle for tank carriage | : FL |
| Transport category (ADR) | : 3 |
| Special provisions for carriage - Packages (ADR) | : V12 |
| Special provisions for carriage - Operation (ADR) | : S2 |
| Hazard identification number (Kemler No.) | : 30 |
| Orange plates | : |



| | |
|-------------------------------|--------|
| Tunnel restriction code (ADR) | : D/E |
| EAC code | : •3YE |

Transport by sea

| | |
|---------------------------------|-----------------|
| Special provisions (IMDG) | : 223, 274, 955 |
| Limited quantities (IMDG) | : 5 L |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : LP01, P001 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T4 |
| Tank special provisions (IMDG) | : TP1, TP29 |
| EmS-No. (Fire) | : F-E |
| EmS-No. (Spillage) | : S-E |
| Stowage category (IMDG) | : A |

Air transport

| | |
|--|--------|
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y344 |
| PCA limited quantity max net quantity (IATA) | : 10L |
| PCA packing instructions (IATA) | : 355 |
| PCA max net quantity (IATA) | : 60L |
| CAO packing instructions (IATA) | : 366 |
| CAO max net quantity (IATA) | : 220L |
| Special provisions (IATA) | : A3 |
| ERG code (IATA) | : 3L |

Inland waterway transport

| | |
|---------------------------|-------------|
| Classification code (ADN) | : F1 |
| Special provisions (ADN) | : 274, 601 |
| Limited quantities (ADN) | : 5 L |
| Excepted quantities (ADN) | : E1 |
| Carriage permitted (ADN) | : T |
| Equipment required (ADN) | : PP, EX, A |

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Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : F1

Special provisions (RID) : 274, 601

Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T4

Portable tank and bulk container special provisions (RID) : TP1, TP29

Tank codes for RID tanks (RID) : LGBF

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Colis express (express parcels) (RID) : CE4

Hazard identification number (RID) : 30

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.1.2. National regulations

France

Occupational diseases : RG 84 - Affections engendrées par les solvants organiques liquides à usage professionnel
RG 4 BIS - Affections gastro-intestinales provoquées par le benzène, le toluène, les xylènes et tous les produits en renfermant

Germany

Reference to AwSV : Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Xylene, toluene are listed

Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <H226;H304;H312+H332;H315;H319;H335;H373>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information

Abbreviations and acronyms:

Abbreviations and acronyms:

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
ICAO: International Civil Aviation Organization
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Full text of H- and EUH-statements:

| | |
|-------------------------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| 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. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product