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

1.1. Product identifier

Trade name/designation : Quickleen Engine And Fuel System Cleaner
Product code : 92-8M0058681, 92-8M0079744, 92-8M0133970

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

Main use category : Industrial use, Professional use, Consumer use

1.3. Details of the supplier of the safety data sheet

Company : Brunswick Marine EMEA
Parc industriel de Petit-Rechain, Avenue Mercury 8
4800 Verviers, Belgium
Telephone +32 (0)87 32 32 11
E-mail: bme.compliance@brunswick.com

1.4. Emergency telephone number

Emergency telephone : 0032 3 575 55 55

Ireland

National Poisons Information Centre
Beaumont Hospital

+353 1 809 21 66 (public, 8am - 10pm, 7/7)
+353 01 809 2566 (Professionals, 24/7)

United Kingdom

National Poisons Information Service
(Newcastle Centre)
Regional Drugs and Therapeutics Centre,
Wolfson Unit

0844 892 0111 (UK only, 24/7, healthcare professionals only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

CLP-Classification : The product is classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

Flam. Liq. 3 H226
Skin Irrit. 2 H315
Eye Irrit. 2 H319
STOT SE 3 H336
Asp. Tox. 1 H304
Aquatic Chronic 2 H411


Full text of H-statements: see section 16

2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

Classification : This mixture is classified as hazardous according to 1999/45/EC.

Xi; R38
N; R51/53
R10
Xn; R65

Full text of R-phrases: see section 16

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2.2. Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

GHS09

Signal word :

Danger

Contains :

Distillates (petroleum), hydrotreated light
Solvent naphtha (petroleum), light aromatic

Hazard statements (CLP) :

H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.
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 and other ignition sources. No smoking.
P271 - Use only outdoors or in a well-ventilated area.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 - Do NOT induce vomiting.
P405 - Store locked up.
P501 - Dispose of contents/container to an approved waste disposal plant.

Precautionary statements (CLP) :

2.2.2. Labelling according to Directives (67/548 - 1999/45)

Not relevant

2.3. Other hazards

Other hazards :

Vapours can form explosive mixtures with air.
Results of PBT and vPvB assessment :
Not applicable


SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable


3.2. Mixtures

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
Distillates (petroleum), hydrotreated light	(CAS-No.) 64742-47-8 (EC-No.) 265-149-8 (EC Index) 649-422-00-2	60 - 70	Xn; R65 Xi; R38 N; R51/53 R10
Solvent naphtha (petroleum), light aromatic	(CAS-No.) 64742-95-6 (EC-No.) 265-199-0 (EC Index) 649-356-00-4	6 - 12	F+; R12 Xi; R38 Xn; R65 R67 N; R51/53
Polyolefin alkyl phenol alkyl amine		6 - 12	Xi; R36/38
1,2,4-trimethylbenzene	(CAS-No.) 95-63-6 (EC-No.) 202-436-9 (EC Index) 601-043-00-3	1 - 4	Not classified
mesitylene; 1,3,5-trimethylbenzene	(CAS-No.) 108-67-8 (EC-No.) 203-604-4 (EC Index) 601-025-00-5	1 - 2	Not classified
1,2,3-trimethylbenzene	(CAS-No.) 526-73-8 (EC-No.) 208-394-8	< 1	R10

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Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
xylene	(CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index) 601-022-00-9	< 1	R10 Xn; R20/21 Xi; R38
cumene	(CAS-No.) 98-82-8 (EC-No.) 202-704-5 (EC Index) 601-024-00-X	< 1	Not classified
Toluene	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index) 601-021-00-3	< 0,1	F; R11 Repr.Cat.3; R63 Xn; R65 Xn; R48/20 Xi; R38 R67
naphthalene	(CAS-No.) 91-20-3 (EC-No.) 202-049-5 (EC Index) 601-052-00-2	< 0,1	Not classified
ethylbenzene	(CAS-No.) 100-41-4 (EC-No.) 202-849-4 (EC Index) 601-023-00-4	< 0,1	F; R11 Xn; R20 Xn; R65 Xn; R48/20
propylene oxide, 1,2-epoxypropane, methyloxirane substance listed as REACH Candidate	(CAS-No.) 75-56-9 (EC-No.) 200-879-2 (EC Index) 603-055-00-4	< 0,1	Not classified

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated light	(CAS-No.) 64742-47-8 (EC-No.) 265-149-8 (EC Index) 649-422-00-2	60 - 70	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Solvent naphtha (petroleum), light aromatic	(CAS-No.) 64742-95-6 (EC-No.) 265-199-0 (EC Index) 649-356-00-4	6 - 12	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Polyolefin alkyl phenol alkyl amine		6 - 12	Skin Irrit. 2, H315 Eye Irrit. 2, H319
1,2,4-trimethylbenzene	(CAS-No.) 95-63-6 (EC-No.) 202-436-9 (EC Index) 601-043-00-3	1 - 4	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
mesitylene; 1,3,5-trimethylbenzene	(CAS-No.) 108-67-8 (EC-No.) 203-604-4 (EC Index) 601-025-00-5	1 - 2	Flam. Liq. 3, H226 STOT SE 3, H335 Aquatic Chronic 2, H411
1,2,3-trimethylbenzene	(CAS-No.) 526-73-8 (EC-No.) 208-394-8	< 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319
xylene	(CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index) 601-022-00-9	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400
cumene	(CAS-No.) 98-82-8 (EC-No.) 202-704-5 (EC Index) 601-024-00-X	< 1	Flam. Liq. 3, H226 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Toluene	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index) 601-021-00-3	< 0,1	Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336
naphthalene	(CAS-No.) 91-20-3 (EC-No.) 202-049-5 (EC Index) 601-052-00-2	< 0,1	Carc. 2, H351 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ethylbenzene	(CAS-No.) 100-41-4 (EC-No.) 202-849-4 (EC Index) 601-023-00-4	< 0,1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304

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Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propylene oxide, 1,2-epoxypropane, methyloxirane substance listed as REACH Candidate	(CAS-No.) 75-56-9 (EC-No.) 200-879-2 (EC Index) 603-055-00-4	< 0,1	Flam. Liq. 1, H224 Carc. 1B, H350 Muta. 1B, H340 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Oral), H302 STOT SE 3, H335 Eye Irrit. 2, H319

Full text of R- and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	: Remove person to fresh air and keep comfortable for breathing. In case of doubt or persistent symptoms, consult always a physician
Skin contact	: Take off contaminated clothing. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
Ingestion	: Rinse mouth thoroughly with water. Do NOT induce vomiting. Get immediate medical advice/attention.
Additional advice	: First aider: Pay attention to self-protection Concerning personal protective equipment to use, see section 8 Never give anything by mouth to an unconscious person In case of doubt or persistent symptoms, consult always a physician Show this safety data sheet to the doctor in attendance. Treat symptomatically.

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

Inhalation	: May cause drowsiness or dizziness. The following symptoms may occur: Headache Nausea.
Skin contact	: Causes skin irritation. The following symptoms may occur: Itching erythema (redness) Repeated exposure may cause skin dryness or cracking. superficial burning sensation Swelling of tissue.
Eyes contact	: Causes serious eye irritation. The following symptoms may occur: erythema (redness) Swelling of tissue stinging Tears.
Ingestion	: May be fatal if swallowed and enters airways. The following symptoms may occur: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.


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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray, alcohol resistant foam, Dry extinguishing powder, Carbon dioxide
For safety reasons unsuitable extinguishing agents	: Strong water jet

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5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapour.
- Specific hazards : Flammable liquid and vapour.
 Heating causes rise in pressure with risk of bursting.
 Vapours may form explosive mixture with air
 Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours
 Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.

5.3. Advice for firefighters

- Advice for firefighters : Special protective equipment for firefighters.
 In case of fire: Wear self-contained breathing apparatus.
 Use water spray or fog for cooling exposed containers
 Do not allow run-off from fire-fighting to enter drains or water courses.
 Dispose of waste in accordance with environmental legislation
 Evacuate personnel to a safe area

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel : Evacuate personnel to a safe area
 Stay upwind/keep distance from source.
 Provide adequate ventilation
 Use personal protective equipment as required.
 Concerning personal protective equipment to use, see section 8
 Do not breathe vapour/aerosol
 Avoid contact with skin, eyes and clothing
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Ensure equipment is adequately earthed
 Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
 Use only non-sparking tools.
- For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place
 Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions


- Environmental precautions : Do not allow to enter into surface water or drains
 Notify authorities if product enters sewers or public waters

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Use foam on spills to minimise vapours.
 Stop leak if safe to do so.
 Dam up.
 Clean-up methods - small spillage: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone, Collect in closed and suitable containers for disposal.
 Clean-up methods - large spillage: Large spills should be collected mechanically (remove by pumping) for disposal, Collect in closed and suitable containers for disposal.
 Dispose of waste product or used containers according to local regulations.

6.4. Reference to other sections

- Concerning personal protective equipment to use, see section 8
 Concerning disposal elimination after cleaning, see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Handling :
- Provide adequate ventilation
 - Use personal protective equipment as required.
 - Concerning personal protective equipment to use, see section 8
 - Do not breathe vapour/aerosol
 - Avoid contact with skin, eyes and clothing
 - Take any precaution to avoid mixing with incompatible materials.
 - See also section 10
 - Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time).
 - Do not allow contact with soil, surface or ground water.
 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - Ensure equipment is adequately earthed
 - Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
 - Use only non-sparking tools.
- Advices on general occupational hygiene :
- Keep good industrial hygiene
 - Wash hands before breaks and immediately after using the product.
 - When using do not eat, drink or smoke.
 - Keep away from food, drink and animal feedingstuffs
 - Keep work clothes separately.
 - Take off contaminated clothing.
 - Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage :
- Keep in a dry, cool and well-ventilated place.
 - Do not store near or with any of the incompatible materials listed in section 10.
 - Bund storage facilities to prevent soil and water pollution in the event of spillage.
 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Packaging materials :
- Keep/Store only in original container.

7.3. Specific end use(s)

No data available.


SECTION 8: Exposure controls/personal protection

8.1. Control parameters


Exposure limit values :

Distillates (petroleum), hydrotreated light (64742-47-8)		
Switzerland	KZGW (mg/m ³)	700 mg/m ³
Switzerland	MAK (mg/m ³)	350 mg/m ³

1,2,4-trimethylbenzene (95-63-6)		
EU	IOELV TWA (mg/m ³)	100 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
Austria	MAK (mg/m ³)	100 mg/m ³
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m ³)	150 mg/m ³
Austria	MAK Short time value (ppm)	30 ppm


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1,2,4-trimethylbenzene (95-63-6)		
Bulgaria	OEL TWA (mg/m ³)	100 mg/m ³
Bulgaria	OEL TWA (ppm)	20 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	100 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	20 ppm
Cyprus	OEL TWA (mg/m ³)	100 mg/m ³
Cyprus	OEL TWA (ppm)	20 ppm
France	VLE (mg/m ³)	250 mg/m ³ (restrictive limit)
France	VLE (ppm)	50 ppm (restrictive limit)
France	VME (mg/m ³)	100 mg/m ³ (restrictive limit)
France	VME (ppm)	20 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	100 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 Biological limit value	400 mg/g Parameter: Dimethylbenzoic acid - Medium: urine - Sampling time: end of shift (sum of all isomers after hydrolysis) 400 mg/g Parameter: Dimethylbenzoic acid - Medium: urine - Sampling time: end of several shifts (sum of all isomers after hydrolysis)
Gibraltar	8h mg/m ³	100 mg/m ³
Gibraltar	8h ppm	20 ppm
Greece	OEL TWA (mg/m ³)	125 mg/m ³
Greece	OEL TWA (ppm)	25 ppm
Italy	OEL TWA (mg/m ³)	100 mg/m ³
Italy	OEL TWA (ppm)	20 ppm
Latvia	OEL TWA (mg/m ³)	100 mg/m ³
Latvia	OEL TWA (ppm)	20 ppm
Spain	VLA-ED (mg/m ³)	100 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	20 ppm (indicative limit value)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	100 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	200 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	100 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	100 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Finland	HTP-arvo (8h) (mg/m ³)	100 mg/m ³
Finland	HTP-arvo (8h) (ppm)	20 ppm
Hungary	AK-érték	100 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	100 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m ³)	300 mg/m ³ (calculated)
Ireland	OEL (15 min ref) (ppm)	60 ppm (calculated)
Malta	OEL TWA (mg/m ³)	100 mg/m ³
Malta	OEL TWA (ppm)	20 ppm
Norway	Grenseverdier (AN) (mg/m ³)	100 mg/m ³
Norway	Grenseverdier (AN) (ppm)	20 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	125 mg/m ³ (value calculated)

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1,2,4-trimethylbenzene (95-63-6)		
Norway	Grenseverdier (Korttidsverdi) (ppm)	30 ppm (value calculated)
Poland	NDS (mg/m ³)	100 mg/m ³
Poland	NDSch (mg/m ³)	170 mg/m ³
Romania	OEL TWA (mg/m ³)	100 mg/m ³
Romania	OEL TWA (ppm)	20 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	100 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	100 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	20 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	170 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	35 ppm

mesitylene; 1,3,5-trimethylbenzene (108-67-8)		
EU	IOELV TWA (mg/m ³)	100 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
Austria	MAK (mg/m ³)	100 mg/m ³
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m ³)	150 mg/m ³
Austria	MAK Short time value (ppm)	30 ppm
Belgium	Limit value (mg/m ³)	100 mg/m ³
Belgium	Limit value (ppm)	20 ppm
Bulgaria	OEL TWA (mg/m ³)	100 mg/m ³
Bulgaria	OEL TWA (ppm)	20 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	100 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	20 ppm
Cyprus	OEL TWA (mg/m ³)	100 mg/m ³
Cyprus	OEL TWA (ppm)	20 ppm
France	VLE (mg/m ³)	250 mg/m ³ (restrictive limit)
France	VLE (ppm)	50 ppm (restrictive limit)
France	VME (mg/m ³)	100 mg/m ³ (restrictive limit)
France	VME (ppm)	20 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	100 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 Biological limit value	400 mg/g Parameter: Dimethylbenzoic acid - Medium: urine - Sampling time: end of shift (sum of all isomers after hydrolysis) 400 mg/g Parameter: Dimethylbenzoic acid - Medium: urine - Sampling time: end of shift (sum of all isomers after hydrolysis)
Gibraltar	8h mg/m ³	100 mg/m ³
Gibraltar	8h ppm	20 ppm
Greece	OEL TWA (mg/m ³)	125 mg/m ³
Greece	OEL TWA (ppm)	25 ppm
Italy	OEL TWA (mg/m ³)	100 mg/m ³
Italy	OEL TWA (ppm)	20 ppm
Latvia	OEL TWA (mg/m ³)	100 mg/m ³


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mesitylene; 1,3,5-trimethylbenzene (108-67-8)		
Latvia	OEL TWA (ppm)	20 ppm
Spain	VLA-ED (mg/m ³)	100 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	20 ppm (indicative limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	200 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	100 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	100 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Finland	HTP-arvo (8h) (mg/m ³)	100 mg/m ³
Finland	HTP-arvo (8h) (ppm)	20 ppm
Hungary	AK-érték	100 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	100 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m ³)	300 mg/m ³ (calculated)
Ireland	OEL (15 min ref) (ppm)	60 ppm (calculated)
Lithuania	IPRV (mg/m ³)	100 mg/m ³
Lithuania	IPRV (ppm)	20 ppm
Lithuania	TPRV (mg/m ³)	150 mg/m ³
Lithuania	TPRV (ppm)	30 ppm
Malta	OEL TWA (mg/m ³)	100 mg/m ³
Malta	OEL TWA (ppm)	20 ppm
Norway	Grenseverdier (AN) (mg/m ³)	100 mg/m ³
Norway	Grenseverdier (AN) (ppm)	20 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	125 mg/m ³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	30 ppm (value calculated)
Poland	NDS (mg/m ³)	100 mg/m ³
Poland	NDSch (mg/m ³)	170 mg/m ³
Romania	OEL TWA (mg/m ³)	100 mg/m ³
Romania	OEL TWA (ppm)	20 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	100 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	200 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	100 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	20 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	170 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	35 ppm


cumene (98-82-8)		
EU	IOELV TWA (mg/m ³)	100 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	250 mg/m ³
EU	IOELV STEL (ppm)	50 ppm
EU	Notes	Possibility of significant uptake through the skin
Austria	MAK (mg/m ³)	100 mg/m ³
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m ³)	250 mg/m ³
Austria	MAK Short time value (ppm)	50 ppm
Belgium	Limit value (mg/m ³)	100 mg/m ³

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cumene (98-82-8)		
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m ³)	250 mg/m ³
Belgium	Short time value	50 ppm
Bulgaria	OEL TWA (mg/m ³)	100 mg/m ³
Bulgaria	OEL TWA (ppm)	20 ppm
Bulgaria	OEL STEL (mg/m ³)	250 mg/m ³
Bulgaria	OEL STEL (ppm)	50 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	100 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	20 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	250 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	50 ppm
Cyprus	OEL TWA (mg/m ³)	100 mg/m ³
Cyprus	OEL TWA (ppm)	20 ppm
Cyprus	OEL STEL (mg/m ³)	250 mg/m ³
Cyprus	OEL STEL (ppm)	50 ppm
France	VLE (mg/m ³)	250 mg/m ³ (restrictive limit)
France	VLE (ppm)	50 ppm (restrictive limit)
France	VME (mg/m ³)	100 mg/m ³ (restrictive limit)
France	VME (ppm)	20 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	50 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	10 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 Biological limit value	10 mg/g Parameter: 2-Phenyl-2-propanol (after hydrolyse) - Medium: urine - Sampling time: end of shift (measured as mg/g Creatinine)
Gibraltar	8h mg/m ³	100 mg/m ³
Gibraltar	8h ppm	20 ppm
Gibraltar	Short-term mg/m ³	250 mg/m ³
Gibraltar	Short-term ppm	50 ppm
Greece	OEL TWA (mg/m ³)	245 mg/m ³
Greece	OEL TWA (ppm)	50 ppm
Greece	OEL STEL (mg/m ³)	370 mg/m ³
Greece	OEL STEL (ppm)	75 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50 ppm
Italy	OEL TWA (mg/m ³)	100 mg/m ³
Italy	OEL TWA (ppm)	20 ppm
Italy	OEL STEL (mg/m ³)	250 mg/m ³
Italy	OEL STEL (ppm)	50 ppm
Latvia	OEL TWA (mg/m ³)	100 mg/m ³
Latvia	OEL TWA (ppm)	20 ppm
Spain	VLA-ED (mg/m ³)	100 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	20 ppm (indicative limit value)
Spain	VLA-EC (mg/m ³)	250 mg/m ³


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cumene (98-82-8)		
Spain	VLA-EC (ppm)	50 ppm
Switzerland	KZGW (mg/m ³)	400 mg/m ³
Switzerland	KZGW (ppm)	80 ppm
Switzerland	MAK (mg/m ³)	100 mg/m ³
Switzerland	MAK (ppm)	20 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	100 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	250 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	125 mg/m ³
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (mg/m ³)	250 mg/m ³
United Kingdom	WEL STEL (ppm)	50 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	100 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	100 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Finland	HTP-arvo (8h) (mg/m ³)	100 mg/m ³
Finland	HTP-arvo (8h) (ppm)	20 ppm
Finland	HTP-arvo (15 min)	250 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	50 ppm
Hungary	AK-érték	100 mg/m ³
Hungary	CK-érték	250 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	100 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m ³)	250 mg/m ³
Ireland	OEL (15 min ref) (ppm)	50 ppm
Lithuania	IPRV (mg/m ³)	120 mg/m ³
Lithuania	IPRV (ppm)	25 ppm
Lithuania	TPRV (mg/m ³)	170 mg/m ³
Lithuania	TPRV (ppm)	35 ppm
Malta	OEL TWA (mg/m ³)	100 mg/m ³
Malta	OEL TWA (ppm)	20 ppm
Malta	OEL STEL (mg/m ³)	250 mg/m ³
Malta	OEL STEL (ppm)	50 ppm
Norway	Grenseverdier (AN) (mg/m ³)	100 mg/m ³
Norway	Grenseverdier (AN) (ppm)	20 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	250 mg/m ³ (value from the regulation)
Norway	Grenseverdier (Korttidsverdi) (ppm)	50 ppm (value from the regulation)
Poland	NDS (mg/m ³)	50 mg/m ³
Poland	NDSch (mg/m ³)	250 mg/m ³
Romania	OEL TWA (mg/m ³)	100 mg/m ³
Romania	OEL TWA (ppm)	20 ppm
Romania	OEL STEL (mg/m ³)	150 mg/m ³
Romania	OEL STEL (ppm)	50 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	500 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	250 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	100 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	20 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	250 mg/m ³

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cumene (98-82-8)		
Sweden	kortidsvärde (KTV) (ppm)	50 ppm

1,2,3-trimethylbenzene (526-73-8)		
EU	IOELV TWA (mg/m ³)	100 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
Austria	MAK (mg/m ³)	100 mg/m ³
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m ³)	150 mg/m ³
Austria	MAK Short time value (ppm)	30 ppm
Bulgaria	OEL TWA (mg/m ³)	100 mg/m ³
Bulgaria	OEL TWA (ppm)	20 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	100 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	20 ppm
Cyprus	OEL TWA (mg/m ³)	100 mg/m ³
Cyprus	OEL TWA (ppm)	20 ppm
France	VLE (mg/m ³)	250 mg/m ³ (restrictive limit)
France	VLE (ppm)	50 ppm (restrictive limit)
France	VME (mg/m ³)	100 mg/m ³ (restrictive limit)
France	VME (ppm)	20 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	100 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 Biological limit value	400 mg/g Parameter: Dimethylbenzoic acid - Medium: urine - Sampling time: end of shift (sum of all isomers after hydrolysis) 400 mg/g Parameter: Dimethylbenzoic acid - Medium: urine - Sampling time: end of several shifts (sum of all isomers after hydrolysis)
Gibraltar	8h mg/m ³	100 mg/m ³
Gibraltar	8h ppm	20 ppm
Greece	OEL TWA (mg/m ³)	125 mg/m ³
Greece	OEL TWA (ppm)	25 ppm
Italy	OEL TWA (mg/m ³)	100 mg/m ³
Italy	OEL TWA (ppm)	20 ppm
Latvia	OEL TWA (mg/m ³)	100 mg/m ³
Latvia	OEL TWA (ppm)	20 ppm
Spain	VLA-ED (mg/m ³)	100 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	20 ppm (indicative limit value)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	100 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	200 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	100 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	100 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Finland	HTP-arvo (8h) (mg/m ³)	100 mg/m ³
Finland	HTP-arvo (8h) (ppm)	20 ppm
Hungary	AK-érték	100 mg/m ³


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1,2,3-trimethylbenzene (526-73-8)		
Ireland	OEL (8 hours ref) (mg/m ³)	100 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m ³)	300 mg/m ³ (calculated)
Ireland	OEL (15 min ref) (ppm)	60 ppm (calculated)
Malta	OEL TWA (mg/m ³)	100 mg/m ³
Malta	OEL TWA (ppm)	20 ppm
Norway	Grenseverdier (AN) (mg/m ³)	100 mg/m ³
Norway	Grenseverdier (AN) (ppm)	20 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	125 mg/m ³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	30 ppm (value calculated)
Poland	NDS (mg/m ³)	100 mg/m ³
Poland	NDSch (mg/m ³)	170 mg/m ³
Romania	OEL TWA (mg/m ³)	100 mg/m ³
Romania	OEL TWA (ppm)	20 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	100 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	100 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	20 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	170 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	35 ppm

xylene (1330-20-7)		
EU	IOELV TWA (mg/m ³)	221 mg/m ³ (pure)
EU	IOELV TWA (ppm)	50 ppm (pure)
EU	IOELV STEL (mg/m ³)	442 mg/m ³ (pure)
EU	IOELV STEL (ppm)	100 ppm (pure)
EU	Notes	Possibility of significant uptake through the skin (pure)
Austria	MAK (mg/m ³)	221 mg/m ³ (all isomers)
Austria	MAK (ppm)	50 ppm (all isomers)
Austria	MAK Short time value (mg/m ³)	442 mg/m ³
Austria	MAK Short time value (ppm)	100 ppm
Belgium	Limit value (mg/m ³)	221 mg/m ³
Belgium	Limit value (ppm)	50 ppm
Belgium	Short time value (mg/m ³)	442 mg/m ³
Belgium	Short time value	100 ppm
Bulgaria	OEL TWA (mg/m ³)	221 mg/m ³ (pure)
Bulgaria	OEL TWA (ppm)	50 ppm (pure)
Bulgaria	OEL STEL (mg/m ³)	442 mg/m ³ (pure)
Bulgaria	OEL STEL (ppm)	100 ppm (pure)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	221 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	442 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Cyprus	OEL TWA (mg/m ³)	221 mg/m ³
Cyprus	OEL TWA (ppm)	50 ppm


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xylene (1330-20-7)		
Cyprus	OEL STEL (mg/m ³)	442 mg/m ³
Cyprus	OEL STEL (ppm)	100 ppm
France	VLE (mg/m ³)	442 mg/m ³ (restrictive limit)
France	VLE (ppm)	100 ppm (restrictive limit)
France	VME (mg/m ³)	221 mg/m ³ (restrictive limit)
France	VME (ppm)	50 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	440 mg/m ³ (all isomers)
Germany	TRGS 900 Occupational exposure limit value (ppm)	100 ppm (all isomers)
Germany	TRGS 903 Biological limit value	2000 mg/l Parameter: Methylhippuric(tolur-)acid - Medium: urine - Sampling time: end of shift (all isomers)
Gibraltar	8h mg/m ³	221 mg/m ³ (pure)
Gibraltar	8h ppm	50 ppm (pure)
Gibraltar	Short-term mg/m ³	442 mg/m ³ (pure)
Gibraltar	Short-term ppm	100 ppm (pure)
Greece	OEL TWA (mg/m ³)	435 mg/m ³
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m ³)	650 mg/m ³
Greece	OEL STEL (ppm)	150 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	100 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	150 ppm
Italy	OEL TWA (mg/m ³)	221 mg/m ³ (pure)
Italy	OEL TWA (ppm)	50 ppm (pure)
Italy	OEL STEL (mg/m ³)	442 mg/m ³ (pure)
Italy	OEL STEL (ppm)	100 ppm (pure)
Latvia	OEL TWA (mg/m ³)	221 mg/m ³
Latvia	OEL TWA (ppm)	50 ppm
Spain	VLA-ED (mg/m ³)	221 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	50 ppm (indicative limit value)
Spain	VLA-EC (mg/m ³)	442 mg/m ³
Spain	VLA-EC (ppm)	100 ppm
Switzerland	KZGW (mg/m ³)	870 mg/m ³
Switzerland	KZGW (ppm)	200 ppm
Switzerland	MAK (mg/m ³)	435 mg/m ³
Switzerland	MAK (ppm)	100 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	210 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	442 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	220 mg/m ³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m ³)	441 mg/m ³
United Kingdom	WEL STEL (ppm)	100 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	200 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	109 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	25 ppm
Finland	HTP-arvo (8h) (mg/m ³)	220 mg/m ³


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xylene (1330-20-7)		
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	440 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
Hungary	AK-érték	221 mg/m ³
Hungary	CK-érték	442 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	221 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m ³)	442 mg/m ³
Ireland	OEL (15 min ref) (ppm)	100 ppm
Lithuania	IPRV (mg/m ³)	200 mg/m ³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m ³)	450 mg/m ³
Lithuania	TPRV (ppm)	100 ppm
Malta	OEL TWA (mg/m ³)	221 mg/m ³ (pure)
Malta	OEL TWA (ppm)	50 ppm (pure)
Malta	OEL STEL (mg/m ³)	442 mg/m ³ (pure)
Malta	OEL STEL (ppm)	100 ppm (pure)
Norway	Grenseverdier (AN) (mg/m ³)	108 mg/m ³
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	135 mg/m ³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	37,5 ppm (value calculated)
Poland	NDS (mg/m ³)	100 mg/m ³ (mixture of isomers)
Poland	NDSch (mg/m ³)	200 mg/m ³ (mixture of isomers)
Romania	OEL TWA (mg/m ³)	221 mg/m ³ (pure)
Romania	OEL TWA (ppm)	50 ppm (pure)
Romania	OEL STEL (mg/m ³)	442 mg/m ³ (pure)
Romania	OEL STEL (ppm)	100 ppm (pure)
Slovakia	NPHV (priemerná) (mg/m ³)	221 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	442 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	221 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	442 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	100 ppm


ethylbenzene (100-41-4)		
EU	IOELV TWA (mg/m ³)	442 mg/m ³
EU	IOELV TWA (ppm)	100 ppm
EU	IOELV STEL (mg/m ³)	884 mg/m ³
EU	IOELV STEL (ppm)	200 ppm
EU	Notes	Possibility of significant uptake through the skin
Austria	MAK (mg/m ³)	440 mg/m ³
Austria	MAK (ppm)	100 ppm
Austria	MAK Short time value (mg/m ³)	880 mg/m ³
Austria	MAK Short time value (ppm)	200 ppm
Belgium	Limit value (mg/m ³)	442 mg/m ³
Belgium	Limit value (ppm)	100 ppm

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ethylbenzene (100-41-4)		
Belgium	Short time value (mg/m ³)	551 mg/m ³
Belgium	Short time value	125 ppm
Bulgaria	OEL TWA (mg/m ³)	435 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	545 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	442 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	100 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	884 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	200 ppm
Cyprus	OEL TWA (mg/m ³)	442 mg/m ³
Cyprus	OEL TWA (ppm)	100 ppm
Cyprus	OEL STEL (mg/m ³)	884 mg/m ³
Cyprus	OEL STEL (ppm)	200 ppm
France	VLE (mg/m ³)	442 mg/m ³ (restrictive limit)
France	VLE (ppm)	100 ppm (restrictive limit)
France	VME (mg/m ³)	88,4 mg/m ³ (restrictive limit)
France	VME (ppm)	20 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	88 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 Biological limit value	250 mg/g Parameter: Mandelic acid plus Phenylglyoxylic acid; measured as mg/g Creatinine - Medium: urine - Sampling time: end of shift
Gibraltar	8h mg/m ³	442 mg/m ³
Gibraltar	8h ppm	100 ppm
Gibraltar	Short-term mg/m ³	884 mg/m ³
Gibraltar	Short-term ppm	200 ppm
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 - Portugal - USA ACGIH	ACGIH TWA (ppm)	20 ppm
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
Latvia	OEL TWA (mg/m ³)	442 mg/m ³
Latvia	OEL TWA (ppm)	100 ppm
Spain	VLA-ED (mg/m ³)	441 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	100 ppm (indicative limit value)
Spain	VLA-EC (mg/m ³)	884 mg/m ³
Spain	VLA-EC (ppm)	200 ppm
Switzerland	KZGW (mg/m ³)	220 mg/m ³
Switzerland	KZGW (ppm)	50 ppm

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ethylbenzene (100-41-4)		
Switzerland	MAK (mg/m ³)	220 mg/m ³
Switzerland	MAK (ppm)	50 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	215 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	430 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	441 mg/m ³
United Kingdom	WEL TWA (ppm)	100 ppm
United Kingdom	WEL STEL (mg/m ³)	552 mg/m ³
United Kingdom	WEL STEL (ppm)	125 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	200 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	217 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Finland	HTP-arvo (8h) (mg/m ³)	220 mg/m ³
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	880 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	200 ppm
Hungary	AK-érték	442 mg/m ³
Hungary	CK-érték	884 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	442 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	100 ppm
Ireland	OEL (15 min ref) (mg/m ³)	884 mg/m ³
Ireland	OEL (15 min ref) (ppm)	200 ppm
Lithuania	IPRV (mg/m ³)	442 mg/m ³
Lithuania	IPRV (ppm)	100 ppm
Lithuania	TPRV (mg/m ³)	884 mg/m ³
Lithuania	TPRV (ppm)	200 ppm
Malta	OEL TWA (mg/m ³)	442 mg/m ³
Malta	OEL TWA (ppm)	100 ppm
Malta	OEL STEL (mg/m ³)	884 mg/m ³
Malta	OEL STEL (ppm)	200 ppm
Norway	Grenseverdier (AN) (mg/m ³)	20 mg/m ³
Norway	Grenseverdier (AN) (ppm)	5 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	30 mg/m ³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	10 ppm (value calculated)
Poland	NDS (mg/m ³)	200 mg/m ³
Poland	NDSch (mg/m ³)	400 mg/m ³
Romania	OEL TWA (mg/m ³)	442 mg/m ³
Romania	OEL TWA (ppm)	100 ppm
Romania	OEL STEL (mg/m ³)	884 mg/m ³
Romania	OEL STEL (ppm)	200 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	442 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	884 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	220 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	884 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	200 ppm


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naphthalene (91-20-3)		
EU	IOELV TWA (mg/m ³)	50 mg/m ³
EU	IOELV TWA (ppm)	10 ppm
Austria	MAK (mg/m ³)	50 mg/m ³
Austria	MAK (ppm)	10 ppm
Belgium	Limit value (mg/m ³)	53 mg/m ³
Belgium	Limit value (ppm)	10 ppm
Belgium	Short time value (mg/m ³)	80 mg/m ³
Belgium	Short time value	15 ppm
Bulgaria	OEL TWA (mg/m ³)	50 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	75 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	50 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	10 ppm
Cyprus	OEL TWA (mg/m ³)	50 mg/m ³
Cyprus	OEL TWA (ppm)	10 ppm
France	VME (mg/m ³)	50 mg/m ³
France	VME (ppm)	10 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	2 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Germany	TRGS 900 Occupational exposure limit value (ppm)	0,4 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Gibraltar	8h mg/m ³	50 mg/m ³
Gibraltar	8h ppm	10 ppm
Greece	OEL TWA (mg/m ³)	50 mg/m ³
Greece	OEL TWA (ppm)	10 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	10 ppm
Latvia	OEL TWA (mg/m ³)	50 mg/m ³
Latvia	OEL TWA (ppm)	10 ppm
Spain	VLA-ED (mg/m ³)	53 mg/m ³
Spain	VLA-ED (ppm)	10 ppm
Spain	VLA-EC (mg/m ³)	80 mg/m ³
Spain	VLA-EC (ppm)	15 ppm
Switzerland	MAK (mg/m ³)	50 mg/m ³
Switzerland	MAK (ppm)	10 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	50 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	80 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	50 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	50 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	10 ppm
Finland	HTP-arvo (8h) (mg/m ³)	5 mg/m ³
Finland	HTP-arvo (8h) (ppm)	1 ppm
Finland	HTP-arvo (15 min)	10 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	2 ppm
Hungary	AK-érték	50 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	50 mg/m ³

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naphthalene (91-20-3)		
Ireland	OEL (8 hours ref) (ppm)	10 ppm
Ireland	OEL (15 min ref) (mg/m ³)	150 mg/m ³ (calculated)
Ireland	OEL (15 min ref) (ppm)	30 ppm (calculated)
Lithuania	IPRV (mg/m ³)	50 mg/m ³
Lithuania	IPRV (ppm)	10 ppm
Malta	OEL TWA (mg/m ³)	50 mg/m ³
Malta	OEL TWA (ppm)	10 ppm
Norway	Grenseverdier (AN) (mg/m ³)	50 mg/m ³
Norway	Grenseverdier (AN) (ppm)	10 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	75 mg/m ³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	15 ppm (value calculated)
Poland	NDS (mg/m ³)	20 mg/m ³
Poland	NDSch (mg/m ³)	50 mg/m ³
Romania	OEL TWA (mg/m ³)	50 mg/m ³
Romania	OEL TWA (ppm)	10 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	50 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	10 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	80 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	50 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	10 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	80 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	15 ppm

propylene oxide, 1,2-epoxypropane, methyloxirane (75-56-9)		
EU	IOELV TWA (mg/m ³)	2,4 mg/m ³
EU	IOELV TWA (ppm)	1 ppm
Belgium	Limit value (mg/m ³)	5 mg/m ³
Belgium	Limit value (ppm)	2 ppm
Bulgaria	OEL TWA (mg/m ³)	50 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	12 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	5 ppm
France	VME (mg/m ³)	50 mg/m ³
France	VME (ppm)	20 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	2,4 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	1 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 Biological limit value	Parameter: N-(2-Hydroxypropyl)valine - Medium: erythrocytes - Sampling time: after at least 3 months exposure (measured as pmol/g Globin)
Greece	OEL TWA (mg/m ³)	50 mg/m ³
Greece	OEL TWA (ppm)	20 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	2 ppm
Latvia	OEL TWA (mg/m ³)	1 mg/m ³


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propylene oxide, 1,2-epoxypropane, methyloxirane (75-56-9)		
Spain	VLA-ED (mg/m ³)	4,8 mg/m ³ (manufacturing, commercialization and use restrictions according to REACH)
Spain	VLA-ED (ppm)	2 ppm (manufacturing, commercialization and use restrictions according to REACH)
Switzerland	MAK (mg/m ³)	6 mg/m ³
Switzerland	MAK (ppm)	2,5 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	6 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	12 mg/m ³
United Kingdom	WEL TWA (ppm)	5 ppm
United Kingdom	WEL STEL (mg/m ³)	36 mg/m ³ (calculated)
United Kingdom	WEL STEL (ppm)	15 ppm (calculated)
Denmark	Grænseværdie (langvarig) (mg/m ³)	12 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	5 ppm
Finland	HTP-arvo (8h) (mg/m ³)	2,4 mg/m ³
Finland	HTP-arvo (8h) (ppm)	1 ppm
Hungary	MK-érték	5 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	12 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	5 ppm
Ireland	OEL (15 min ref) (mg/m ³)	36 mg/m ³ (calculated)
Ireland	OEL (15 min ref) (ppm)	15 ppm (calculated)
Lithuania	IPRV (mg/m ³)	5 mg/m ³
Lithuania	IPRV (ppm)	2 ppm
Lithuania	TPRV (mg/m ³)	25 mg/m ³
Lithuania	TPRV (ppm)	10 ppm
Norway	Grenseverdier (AN) (mg/m ³)	2 mg/m ³
Norway	Grenseverdier (AN) (ppm)	1 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	4 mg/m ³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	2 ppm (value calculated)
Poland	NDS (mg/m ³)	9 mg/m ³
Romania	OEL TWA (mg/m ³)	50 mg/m ³
Romania	OEL TWA (ppm)	21 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	2 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	25 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	10 ppm


Toluene (108-88-3)		
EU	IOELV TWA (mg/m ³)	192 mg/m ³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m ³)	384 mg/m ³
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	Possibility of significant uptake through the skin
Austria	MAK (mg/m ³)	190 mg/m ³
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m ³)	380 mg/m ³
Austria	MAK Short time value (ppm)	100 ppm
Belgium	Limit value (mg/m ³)	77 mg/m ³

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Toluene (108-88-3)		
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m ³)	384 mg/m ³
Belgium	Short time value	100 ppm
Bulgaria	OEL TWA (mg/m ³)	192 mg/m ³
Bulgaria	OEL TWA (ppm)	50 ppm
Bulgaria	OEL STEL (mg/m ³)	384 mg/m ³
Bulgaria	OEL STEL (ppm)	100 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	192 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	384 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Cyprus	OEL TWA (mg/m ³)	192 mg/m ³
Cyprus	OEL TWA (ppm)	50 ppm
Cyprus	OEL STEL (mg/m ³)	384 mg/m ³
Cyprus	OEL STEL (ppm)	100 ppm
France	VLE (mg/m ³)	384 mg/m ³ (restrictive limit)
France	VLE (ppm)	100 ppm (restrictive limit)
France	VME (mg/m ³)	76,8 mg/m ³ (restrictive limit)
France	VME (ppm)	20 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	190 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 Biological limit value	600 µg/l Parameter: Toluene - Medium: whole blood - Sampling time: immediately after exposure 1,5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of several shifts (after hydrolysis) 1,5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift (after hydrolysis)
Gibraltar	8h mg/m ³	192 mg/m ³
Gibraltar	8h ppm	50 ppm
Gibraltar	Short-term mg/m ³	384 mg/m ³
Gibraltar	Short-term ppm	100 ppm
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 - Portugal - USA ACGIH	ACGIH TWA (ppm)	20 ppm
Italy	OEL TWA (mg/m ³)	192 mg/m ³
Italy	OEL TWA (ppm)	50 ppm
Latvia	OEL TWA (mg/m ³)	50 mg/m ³
Latvia	OEL TWA (ppm)	14 ppm
Spain	VLA-ED (mg/m ³)	192 mg/m ³ (indicative limit value)

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Toluene (108-88-3)		
Spain	VLA-ED (ppm)	50 ppm (indicative limit value)
Spain	VLA-EC (mg/m ³)	384 mg/m ³
Spain	VLA-EC (ppm)	100 ppm
Switzerland	KZGW (mg/m ³)	760 mg/m ³
Switzerland	KZGW (ppm)	200 ppm
Switzerland	MAK (mg/m ³)	190 mg/m ³
Switzerland	MAK (ppm)	50 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	150 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	384 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	191 mg/m ³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m ³)	384 mg/m ³
United Kingdom	WEL STEL (ppm)	100 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	200 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	94 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	25 ppm
Finland	HTP-arvo (8h) (mg/m ³)	81 mg/m ³
Finland	HTP-arvo (8h) (ppm)	25 ppm
Finland	HTP-arvo (15 min)	380 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
Hungary	AK-érték	190 mg/m ³
Hungary	CK-érték	380 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	192 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m ³)	384 mg/m ³
Ireland	OEL (15 min ref) (ppm)	100 ppm
Lithuania	IPRV (mg/m ³)	192 mg/m ³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m ³)	384 mg/m ³
Lithuania	TPRV (ppm)	100 ppm
Malta	OEL TWA (mg/m ³)	192 mg/m ³
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m ³)	384 mg/m ³
Malta	OEL STEL (ppm)	100 ppm
Norway	Grenseverdier (AN) (mg/m ³)	94 mg/m ³
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	141 mg/m ³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	37,5 ppm (value calculated)
Poland	NDS (mg/m ³)	100 mg/m ³
Poland	NDSch (mg/m ³)	200 mg/m ³
Romania	OEL TWA (mg/m ³)	192 mg/m ³
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m ³)	384 mg/m ³
Romania	OEL STEL (ppm)	100 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	192 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	384 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	192 mg/m ³

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Toluene (108-88-3)		
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	384 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	100 ppm

- Monitoring methods : Personal air monitoring
Room air monitoring
- Additional information : Personal air monitoring :
Room air monitoring
Recommended monitoring procedures


8.2. Exposure controls

- Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
Half-face mask (EN 140)
Full face mask (EN 136)
Filter type: ABEK + P
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)
- Hand protection : Wear chemically resistant gloves (tested to EN374) ,Suitable material:Viton ®,Neoprene,NBR (Nitrile rubber),The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
- Eye protection : Use suitable eye protection. (EN 166) Goggles
- Body protection : Wear suitable protective clothing.
- Thermal hazard protection : Not required for normal conditions of use
Use dedicated equipment.
- Engineering measure(s) : Provide adequate ventilation
Organisational measures to prevent /limit releases, dispersion and exposure
Safe handling: see section 7 .
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure
Use only outdoors or in a well-ventilated area.
Store locked up.
Take precautionary measures against static discharges
Ensure equipment is adequately earthed
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
- Environmental exposure controls : Do not allow contact with soil, surface or ground water.
Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Appearance : liquid
- Colour : clear
- Odour : Hydrocarbons

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Odour threshold	:	No data available
pH	:	Not applicable
Melting / freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	41 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable, liquid
Upper / lower flammability or explosive limits	:	No data available
Vapour pressure	:	No data available
Vapour density	:	No data available
Relative density	:	No data available
Water solubility	:	Insoluble
Solubility in different media	:	No data available
Partition coefficient n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	:	Not applicable The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	:	Not applicable The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

9.2. Other information

VOC content	:	77,2 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	:	Flammable liquid and vapour. Reference to other sections: 10.4 & 10.5
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10.2. Chemical stability

Chemical stability	:	The product is stable under storage at normal ambient temperatures.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	:	Vapours can form explosive mixtures with air.
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10.4. Conditions to avoid


Conditions to avoid	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Safe handling: see section 7
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10.5. Incompatible materials

Incompatible materials	:	Oxidising substances, Reducing agent, Safe handling: see section 7
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10.6. Hazardous decomposition products

Hazardous decomposition products	:	Reference to other sections: 5.2
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

Distillates (petroleum), hydrotreated light (64742-47-8)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg
LC50/inhalation/4h/rat	> 5,2 mg/l/4h

Solvent naphtha (petroleum), light aromatic (64742-95-6)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg
LC50/inhalation/4h/rat (ppm)	3400 ppm/4h


1,2,4-trimethylbenzene (95-63-6)	
LD50/oral/rat	3280 mg/kg
LD50/dermal/rat	3440 mg/kg No mortality observed at this dose.
LD50/dermal/rabbit	> 3160 mg/kg
LC50/inhalation/4h/rat	18 g/m ³ (Exposure time: 4 h)
ATE CLP (oral)	3280 mg/kg bodyweight
ATE CLP (dermal)	3440 mg/kg bodyweight
ATE CLP (vapours)	10,2 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h

mesitylene; 1,3,5-trimethylbenzene (108-67-8)	
LC50/inhalation/4h/rat	24 g/m ³ (Exposure time: 4 h)
ATE CLP (vapours)	24 mg/l/4h
ATE CLP (dust,mist)	24 mg/l/4h

cumene (98-82-8)	
LD50/dermal/rabbit	12300 µl/kg
LC50/inhalation/4h/rat (ppm)	> 3577 ppm (Exposure time: 6 h)

xylene (1330-20-7)	
LD50/oral/rat	3500 mg/kg
ATE CLP (oral)	3500 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h

ethylbenzene (100-41-4)	
LD50/oral/rat	3500 mg/kg
LD50/dermal/rabbit	15400 mg/kg
LC50/inhalation/4h/rat	17,4 mg/l/4h
ATE CLP (oral)	3500 mg/kg bodyweight
ATE CLP (dermal)	15400 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	17,2 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h

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naphthalene (91-20-3)	
LD50/oral/rat	1110 mg/kg
LD50/dermal/rat	> 2500 mg/kg
LD50/dermal/rabbit	1120 mg/kg
LC50/inhalation/4h/rat	> 340 mg/m ³ (Exposure time: 1 h)
ATE CLP (oral)	1110 mg/kg bodyweight
ATE CLP (dermal)	1120 mg/kg bodyweight


propylene oxide, 1,2-epoxypropane, methyloxirane (75-56-9)	
LD50/oral/rat	520 mg/kg
LD50/dermal/rabbit	1244 mg/kg
LC50/inhalation/4h/rat	0,948 mg/l/4h
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h

Toluene (108-88-3)	
LD50/oral/rat	5580 mg/kg
LD50/dermal/rabbit	> 12198 mg/kg
LC50/inhalation/4h/rat	12500 - 28800 mg/m ³
ATE CLP (oral)	2600 mg/kg bodyweight
ATE CLP (dermal)	12000 mg/kg bodyweight
ATE CLP (vapours)	12,5 mg/l/4h
ATE CLP (dust,mist)	12,5 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation. pH: Not applicable
Serious eye damage/irritation	: Causes serious eye irritation. pH: Not applicable
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met.)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met.)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met.)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met.)
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met.)
Aspiration hazard	: May be fatal if swallowed and enters airways.
Other information	: Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

Other information

Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

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SECTION 12: Ecological information

12.1. Toxicity

Toxicity : Toxic to aquatic life with long lasting effects.

Distillates (petroleum), hydrotreated light (64742-47-8)	
LC50 fish 1	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	2,2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

Solvent naphtha (petroleum), light aromatic (64742-95-6)	
LC50 fish 1	9,22 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	6,14 mg/l (Exposure time: 48 h - Species: Daphnia magna)

1,2,4-trimethylbenzene (95-63-6)	
LC50 fish 1	7,19 - 8,28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	6,14 mg/l (Exposure time: 48 h - Species: Daphnia magna)


mesitylene; 1,3,5-trimethylbenzene (108-67-8)	
LC50 fish 1	3,48 mg/l (Exposure time: 96 h - Species: Pimephales promelas)

cumene (98-82-8)	
LC50 fish 1	6,04 - 6,61 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	4,8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 2	7,9 - 14,1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 72h algae (1)	2,6 mg/l (Species: Pseudokirchneriella subcapitata)

xylene (1330-20-7)	
LC50 fish 1	13,4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	3,82 mg/l (Exposure time: 48 h - Species: water flea)
LC50 fish 2	2,661 - 4,093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 2	0,6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)

ethylbenzene (100-41-4)	
LC50 fish 1	11,0 - 18,0 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	1,8 - 2,4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	4,2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 72h algae (1)	4,6 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 96h algae (1)	> 438 mg/l (Species: Pseudokirchneriella subcapitata)

naphthalene (91-20-3)	
LC50 fish 1	5,74 - 6,44 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	2,16 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	0,4 mg/l (72 h - Skeletonema costatum)
LC50 fish 2	0,11 mg/l Oncorhynchus mykiss
EC50 Daphnia 2	1,96 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])

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propylene oxide, 1,2-epoxypropane, methyloxirane (75-56-9)	
LC50 fish 1	215 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	350 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h algae (1)	240 mg/l (Species: Pseudokirchneriella subcapitata)

Toluene (108-88-3)	
LC50 fish 1	15,22 - 19,05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	5,46 - 9,83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	12,6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	11,5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 2	12,5 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])
EC50 72h algae (1)	12,5 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h algae (1)	> 433 mg/l (Species: Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

Persistence and degradability : No data available

12.3. Bioaccumulative potential

Bioaccumulative potential : No data available
Partition coefficient n-octanol/water : No data available

12.4. Mobility in soil

Mobility in soil : No data available

12.5. Results of PBT and vPvB assessment

PBT/vPvB data : Not applicable

12.6. Other adverse effects

Other information : No data available


SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product waste: : Do not allow contact with soil, surface or ground water.
Dispose of empty containers and wastes safely
Safe handling: see section 7
Refer to manufacturer/supplier for information on recovery/recycling
Recycling is preferred to disposal or incineration
If recycling is not possible, eliminate in accordance with local valid waste disposal regulations

Contaminated packaging : Never use pressure to empty container.
Do not pierce or burn, even after use.
Handle contaminated packages in the same way as the substance itself.
Dispose of contaminated materials in accordance with current regulations

European waste catalogue : This material and its container must be disposed of as hazardous waste.
Waste codes should be assigned by the user based on the application for which the product was used.

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SECTION 14: Transport information

14.1. UN number

UN number : 1993

14.2. UN proper shipping name

Proper Shipping Name : FLAMMABLE LIQUID, N.O.S.(Distillates (petroleum), hydrotreated light ; Solvent naphtha (petroleum), light aromatic)
 Proper Shipping Name (IATA) : Flammable liquid, n.o.s.
 Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S.
 Proper Shipping Name (ADN) : FLAMMABLE LIQUID, N.O.S.
 Proper shipping name IATA/IMDG : FLAMMABLE LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light ; Solvent naphtha (petroleum), light aromatic)

14.3. Transport hazard class(es)

14.3.1. Overland transport

Class(es) : 3 - Flammable liquid
 Hazard identification number (Kemler No.) : 30
 Classification code : F1
 ADR/RID-Labels : 3 - Flammable liquids



14.3.2. Inland waterway transport (ADN)

Class (UN) : 3

14.3.3. Transport by sea

Class or Division : 3 - Flammable liquids

14.3.4. Air transport

Class or Division : 3 - Flammable liquids

14.4. Packing group

Packing group : III

14.5. Environmental hazards

Environmental hazards : N



Other information : No supplementary information available.

14.6. Special precautions for user

Special precautions for user : No data available.


14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC : No data available.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

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The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006

3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 : Quickleen Engine And Fuel System Cleaner - Distillates (petroleum), hydrotreated light - 1,2,4-trimethylbenzene - mesitylene; 1,3,5-trimethylbenzene - Solvent naphtha (petroleum), light aromatic - cumene

40. 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 Regulation (EC) No 1272/2008 or not. : Quickleen Engine And Fuel System Cleaner - Distillates (petroleum), hydrotreated light - 1,2,4-trimethylbenzene - 1,2,3-trimethylbenzene - mesitylene; 1,3,5-trimethylbenzene - xylene - Toluene - Solvent naphtha (petroleum), light aromatic - cumene - ethylbenzene

48. Toluene : Toluene

3. 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 : Quickleen Engine And Fuel System Cleaner - Distillates (petroleum), hydrotreated light - 1,2,4-trimethylbenzene - 1,2,3-trimethylbenzene - mesitylene; 1,3,5-trimethylbenzene - xylene - Toluene - Solvent naphtha (petroleum), light aromatic - cumene - ethylbenzene

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: 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 to F : Quickleen Engine And Fuel System Cleaner - Distillates (petroleum), hydrotreated light - 1,2,4-trimethylbenzene - 1,2,3-trimethylbenzene - mesitylene; 1,3,5-trimethylbenzene - xylene - Toluene - Solvent naphtha (petroleum), light aromatic - cumene - ethylbenzene

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: 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 : Quickleen Engine And Fuel System Cleaner - Distillates (petroleum), hydrotreated light - 1,2,4-trimethylbenzene - 1,2,3-trimethylbenzene - xylene - Toluene - Solvent naphtha (petroleum), light aromatic - cumene - ethylbenzene

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC. : Contains no substance on the REACH candidate list $\geq 0,1\%$ / SCL

Authorisations : Not applicable

VOC content : 77,2 %

Special rules on packaging : Child-resistant fastening, Tactile warning according to EN/ISO 11683.

15.1.2. National regulations

DE : WGK : 3
DE : German storage class (LGK) : LGK 3 - Flammable liquids


15.2. Chemical safety assessment

Chemical safety assessment : Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Dermal) : Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation) : Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Dermal) : Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation) : Acute toxicity (inhal.), Category 4

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Acute Tox. 4 (Inhalation:dust,mist)	: Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Inhalation:vapour)	: Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	: Acute toxicity (oral), Category 4
Aquatic Acute 1	: Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	: Hazardous to the aquatic environment - chronic hazard category 1
Aquatic Chronic 2	: Hazardous to the aquatic environment - chronic hazard category 2
Asp. Tox. 1	: Aspiration hazard, Category 1
Carc. 1B	: Carcinogenicity, Category 1B
Carc. 2	: Carcinogenicity, Category 2
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 1	: Flammable liquids, Category 1
Flam. Liq. 2	: Flammable liquids, Category 2
Flam. Liq. 3	: Flammable liquids, Category 3
Muta. 1B	: Germ cell mutagenicity, hazard categories 1B
Repr. 2	: Reproductive toxicity, Hazard 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, Narcosis
STOT SE 3	: Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H224	: Extremely flammable liquid and vapour.
H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H311	: Toxic in contact with skin.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H319	: Causes serious eye irritation.
H331	: Toxic if inhaled.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H340	: May cause genetic defects.
H350	: May cause cancer.
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.
H411	: Toxic to aquatic life with long lasting effects.


Key literature references and sources for data : LOLI
<http://www.echemportal.org>
MSDS

Training advice : Training staff on good practice

Other information : Assessment/classification CLP,Article 9,Calculation method

Safety datasheet sections which have been updated : 2,3,4,15,16

Abbreviations and acronyms : ABM = Algemene beoordelingsmethodiek
ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit

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REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 BTT = Breakthrough time (maximum wearing time)
 DMEL = Derived Minimal Effect level
 DNEL = Derived No Effect Level
 EC50 = Median Effective Concentration
 EL50 = Median effective level
 ErC50 = EC50 in terms of reduction of growth rate
 ErL50 = EL50 in terms of reduction of growth rate
 EWC = European waste catalogue
 LC50 = Median lethal concentration
 LD50 = Median lethal dose
 LL50 = Median lethal level
 NA = Not applicable
 NOEC = No observed effect concentration
 NOEL: no-observed-effect level
 NOELR = No observed effect loading rate
 NOAEC = No observed adverse effect concentration
 NOAEL = No observed adverse effect level
 N.O.S. = Not Otherwise Specified
 OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
 PNEC = Predicted No Effect Concentration
 Quantitative structure-activity relationship (QSAR)
 STOT = Specific Target Organ Toxicity
 TWA = time weighted average
 VOC = Volatile organic compounds
 WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
 Classification according to Regulation (EC) No. 1272/2008 [CLP]
 Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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