

	SAFETY DATA SHEET	Page : 1 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

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

1.1. Product identifier

Trade name/designation : Quickare Fuel Treatment
Product code : 8M0058680, 8M0079743

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

1.4. Emergency telephone number

Emergency telephone : 0032 3 575 55 55

IRELAND (REPUBLIC OF)

National Poisons Information Centre
Beaumont Hospital : +353 18 37 99 64/+353 1 809 21 66

UNITED KINGDOM

National Poisons Information Service
(Newcastle Centre) : 0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours,
Regional Drugs and Therapeutics Centre, healthcare professionals only)
Wolfson Unit

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; R36/38
N; R51/53
R10
Xn; R65

Full text of R-phrases: see section 16

2.2. Label elements

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

	SAFETY DATA SHEET	Page : 2 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

Hazard pictograms :



GHS02 GHS07 GHS08 GHS09

Signal word :

Danger

Contains :

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

Hazard statements :

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.

Precautionary statements :

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/doctor/.
P331 - Do NOT induce vomiting.
P405 - Store locked up.
P501 - Dispose of contents/container to an approved waste disposal plant.

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	65 - 75	Xn; R65 Xi; R38 N; R51/53 R10
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve	(CAS No.) 111-76-2 (EC No) 203-905-0 (EC Index) 603-014-00-0	10 - 15	Xn; R20/21/22 Xi; R36/38
Solvent naphtha (petroleum), light aromatic	(CAS No.) 64742-95-6 (EC No) 265-199-0 (EC Index) 649-356-00-4	1 - 5	F+; R12 Xi; R38 Xn; R65 R67 N; R51/53
1,2,4-trimethylbenzene	(CAS No.) 95-63-6 (EC No) 202-436-9 (EC Index) 601-043-00-3	1 - 5	R10 Xn; R20 Xi; R36/37/38 N; R51/53
Polyolefin alkyl phenol alkyl amine		1 - 5	Xi; R36/38
Substituted Phenol		1 - 1,5	Xi; R41 Xi; R38

	SAFETY DATA SHEET	Page : 3 / 34
	Quickare Fuel Treatment	Revision nr : 2
		Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
mesitylene, 1,3,5-trimethylbenzene	(CAS No.) 108-67-8 (EC No) 203-604-4 (EC Index) 601-025-00-5	0,5 - 1	R10 Xi; R37 N; R51/53
xylene	(CAS No.) 1330-20-7 (EC No) 215-535-7 (EC Index) 601-022-00-9	< 0,5	R10 Xn; R20/21 Xi; R38
cumene	(CAS No.) 98-82-8 (EC No) 202-704-5 (EC Index) 601-024-00-X	< 0,5	R10 Xn; R65 Xi; R37 N; R51/53
1,2,3-trimethylbenzene	(CAS No.) 526-73-8 (EC No) 208-394-8	0,1 - 0,5	R10
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
Furan substance listed as REACH Candidate	(CAS No.) 110-00-9 (EC No) 203-727-3 (EC Index) 603-105-00-5	< 0,1	F+; R12 R19 Carc.Cat.2; R45 Muta.Cat.3; R68 Xn; R20/22 Xn; R48/22 Xi; R38 R52/53
naphthalene	(CAS No.) 91-20-3 (EC No) 202-049-5 (EC Index) 601-052-00-2	< 0,1	Carc.Cat.3; R40 Xn; R22 N; R50/53
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

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	65 - 75	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve	(CAS No.) 111-76-2 (EC No) 203-905-0 (EC Index) 603-014-00-0	10 - 15	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315
Solvent naphtha (petroleum), light aromatic	(CAS No.) 64742-95-6 (EC No) 265-199-0 (EC Index) 649-356-00-4	1 - 5	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
1,2,4-trimethylbenzene	(CAS No.) 95-63-6 (EC No) 202-436-9 (EC Index) 601-043-00-3	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Aquatic Chronic 2, H411
Polyolefin alkyl phenol alkyl amine		1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Substituted Phenol		1 - 1,5	Skin Irrit. 2, H315 Eye Dam. 1, H318
mesitylene, 1,3,5-trimethylbenzene	(CAS No.) 108-67-8 (EC No) 203-604-4 (EC Index) 601-025-00-5	0,5 - 1	Flam. Liq. 3, H226 STOT SE 3, H335 Aquatic Chronic 2, H411
xylene	(CAS No.) 1330-20-7 (EC No) 215-535-7 (EC Index) 601-022-00-9	< 0,5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
cumene	(CAS No.) 98-82-8 (EC No) 202-704-5 (EC Index) 601-024-00-X	< 0,5	Flam. Liq. 3, H226 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

	SAFETY DATA SHEET	Page : 4 / 34
	Quickare Fuel Treatment	Revision nr : 2
		Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2,3-trimethylbenzene	(CAS No.) 526-73-8 (EC No) 208-394-8	0,1 - 0,5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Toluene	(CAS No.) 108-88-3 (EC No) 203-625-9 (EC Index) 601-021-00-3	< 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
Furan substance listed as REACH Candidate	(CAS No.) 110-00-9 (EC No) 203-727-3 (EC Index) 603-105-00-5	< 0,1	Flam. Liq. 1, H224 Carc. 1B, H350 Muta. 2, H341 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Skin Irrit. 2, H315 Aquatic Chronic 3, H412
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

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.
When in doubt or if symptoms are observed, get medical advice.
- Skin contact : Take off contaminated clothing.
Gently wash with plenty of soap and water.
When in doubt or if symptoms are observed, get medical advice.
- Eye 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.
- In case of 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 or a person with cramps.
When in doubt or if symptoms are observed, get medical advice.
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
Repeated exposure may cause skin dryness or cracking. erythema (redness) Burning sensation Swelling of tissue.
- Eye 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.

	SAFETY DATA SHEET	Page : 5 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

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

Extinguishing media which must not be used for safety reasons: : Strong water jet

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.
 Specific hazards : Heating causes rise in pressure with risk of bursting.
 Vapours can form explosive mixtures with air.
 Vapours are heavier than air, spread along floors and form explosive mixtures with air.
 Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.
 Hazardous combustion products:
 Carbon oxides
 Nitrogen oxides (NOx)

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 jet to protect personnel and to cool endangered 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 grounded
 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 ground-water, surface water or drains.
 If the product contaminates rivers and lakes or drains inform respective authorities.

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.

	SAFETY DATA SHEET	Page : 6 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

Dam up.

Clean-up methods - small spillage: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents)., 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

Disposal: see section 13.

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 grounded
 - 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.
 - Contaminated work clothing should not be allowed out of the workplace.

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)

Not applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

:

	SAFETY DATA SHEET	Page : 7 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)		
EU	IOELV TWA (mg/m ³)	98 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	246 mg/m ³
EU	IOELV STEL (ppm)	50 ppm
Austria	MAK (mg/m ³)	98 mg/m ³
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m ³)	200 mg/m ³
Austria	MAK Short time value (ppm)	40 ppm
Belgium	Limit value (mg/m ³)	98 mg/m ³
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m ³)	246 mg/m ³
Belgium	Short time value (ppm)	50 ppm
Bulgaria	OEL TWA (mg/m ³)	20 mg/m ³
Bulgaria	OEL TWA (ppm)	98 ppm
Bulgaria	OEL STEL (mg/m ³)	246 mg/m ³
Bulgaria	OEL STEL (ppm)	50 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	98 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	20 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	246 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	50 ppm
Cyprus	OEL TWA (mg/m ³)	98 mg/m ³
Cyprus	OEL TWA (ppm)	20 ppm
Cyprus	OEL STEL (mg/m ³)	246 mg/m ³
Cyprus	OEL STEL (ppm)	50 ppm
France	VLE (mg/m ³)	246 mg/m ³ (restrictive limit)
France	VLE (ppm)	50 ppm (restrictive limit)
France	VME (mg/m ³)	49 mg/m ³ (restrictive limit)
France	VME (ppm)	10 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	49 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 (BGW)	100 mg/l (Medium: urine - Time: end of several shifts - Parameter: Butoxyacetic acid (for long-term exposures) 200 mg/l (Medium: urine - Time: end of several shifts - Parameter: Butoxyacetic acid (after hydrolysis))
Gibraltar	OEL TWA (mg/m ³)	98 mg/m ³
Gibraltar	OEL TWA (ppm)	20 ppm
Gibraltar	OEL STEL (mg/m ³)	246 mg/m ³
Gibraltar	OEL STEL (ppm)	50 ppm
Greece	OEL TWA (mg/m ³)	120 mg/m ³
Greece	OEL TWA (ppm)	25 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20 ppm

	SAFETY DATA SHEET	Page : 8 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

Italy	OEL TWA (mg/m ³)	98 mg/m ³
Italy	OEL TWA (ppm)	20 ppm
Italy	OEL STEL (mg/m ³)	246 mg/m ³
Italy	OEL STEL (ppm)	50 ppm
Latvia	OEL TWA (mg/m ³)	98 mg/m ³
Latvia	OEL TWA (ppm)	20 ppm
Spain	VLA-ED (mg/m ³)	98 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	20 ppm (indicative limit value)
Spain	VLA-EC (mg/m ³)	245 mg/m ³
Spain	VLA-EC (ppm)	50 ppm
Switzerland	VLE (mg/m ³)	98 mg/m ³
Switzerland	VLE (ppm)	20 ppm
Switzerland	VME (mg/m ³)	49 mg/m ³
Switzerland	VME (ppm)	10 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	100 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	246 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	123 mg/m ³
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (mg/m ³)	246 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)	98 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Finland	HTP-arvo (8h) (mg/m ³)	98 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	98 mg/m ³
Hungary	CK-érték	246 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	98 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m ³)	246 mg/m ³
Ireland	OEL (15 min ref) (ppm)	50 ppm
Lithuania	IPRV (mg/m ³)	50 mg/m ³
Lithuania	IPRV (ppm)	10 ppm
Lithuania	TPRV (mg/m ³)	100 mg/m ³
Lithuania	TPRV (ppm)	20 ppm
Malta	OEL TWA (mg/m ³)	98 mg/m ³
Malta	OEL TWA (ppm)	20 ppm
Malta	OEL STEL (mg/m ³)	246 mg/m ³
Malta	OEL STEL (ppm)	50 ppm
Norway	Grenseverdier (AN) (mg/m ³)	50 mg/m ³
Norway	Grenseverdier (AN) (ppm)	10 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	50 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (ppm)	10 ppm
Poland	NDS (mg/m ³)	98 mg/m ³
Poland	NDSch (mg/m ³)	200 mg/m ³
Romania	OEL TWA (mg/m ³)	150 mg/m ³
Romania	OEL TWA (ppm)	30 ppm

	SAFETY DATA SHEET	Page : 9 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

Romania	OEL STEL (mg/m ³)	250 mg/m ³ 246 mg/m ³ (regulated under 2- Butoxyethanol)
Romania	OEL STEL (ppm)	50 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	98 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	246 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)	100 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	20 ppm

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
Bulgaria	OEL TWA (mg/m ³)	100,0 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 (BGW)	400 mg/g (Medium: urine - Time: end of shift - Parameter: Dimethylbenzoic acid (sum of all isomers after hydrolysis) 400 mg/g (Medium: urine - Time: end of several shifts - Parameter: Dimethylbenzoic acid (sum of all isomers after hydrolysis))
Gibraltar	OEL TWA (mg/m ³)	100 mg/m ³
Gibraltar	OEL TWA (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)

	SAFETY DATA SHEET	Page : 10 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

1,2,4-trimethylbenzene (95-63-6)		
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)	100 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (ppm)	20 ppm
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)	120 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	25 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)	100,0 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)

	SAFETY DATA SHEET	Page : 11 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

mesitylene, 1,3,5-trimethylbenzene (108-67-8)		
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 (BGW)	400 mg/g (Medium: urine - Time: end of shift - Parameter: Dimethylbenzoic acid (sum of all isomers after hydrolysis)) 400 mg/g (Medium: urine - Time: end of shift - Parameter: Dimethylbenzoic acid (sum of all isomers after hydrolysis))
Gibraltar	OEL TWA (mg/m ³)	100 mg/m ³
Gibraltar	OEL TWA (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 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)	150 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (ppm)	30 ppm
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

	SAFETY DATA SHEET	Page : 12 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

mesitylene, 1,3,5-trimethylbenzene (108-67-8)		
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	200 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	120 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	25 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	170 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	35 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)	100,0 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 (BGW)	400 mg/g (Medium: urine - Time: end of shift - Parameter: Dimethylbenzoic acid (sum of all isomers after hydrolysis)) 400 mg/g (Medium: urine - Time: end of several shifts - Parameter: Dimethylbenzoic acid (sum of all isomers after hydrolysis))
Gibraltar	OEL TWA (mg/m ³)	100 mg/m ³
Gibraltar	OEL TWA (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

	SAFETY DATA SHEET	Page : 13 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

1,2,3-trimethylbenzene (526-73-8)		
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)	100 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (ppm)	20 ppm
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)	120 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	25 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
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
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m ³)	250 mg/m ³
Belgium	Short time value (ppm)	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

	SAFETY DATA SHEET	Page : 14 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

cumene (98-82-8)		
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 MAK and BAT values are observed)
Gibraltar	OEL TWA (mg/m ³)	100 mg/m ³
Gibraltar	OEL TWA (ppm)	20 ppm
Gibraltar	OEL STEL (mg/m ³)	250 mg/m ³
Gibraltar	OEL STEL (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
Spain	VLA-EC (ppm)	50 ppm
Switzerland	VLE (mg/m ³)	400 mg/m ³
Switzerland	VLE (ppm)	80 ppm
Switzerland	VME (mg/m ³)	100 mg/m ³
Switzerland	VME (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

	SAFETY DATA SHEET	Page : 15 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

cumene (98-82-8)		
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)	100 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (ppm)	20 ppm
Poland	NDS (mg/m ³)	100 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)	30 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	100 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)	120 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	25 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)
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 (all isomers)
Austria	MAK Short time value (ppm)	100 ppm (all isomers)
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

	SAFETY DATA SHEET	Page : 16 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

xylene (1330-20-7)		
Belgium	Short time value (ppm)	100 ppm
Bulgaria	OEL TWA (mg/m ³)	221,0 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
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 (BGW)	1,5 mg/l (Medium: whole blood - Time: end of shift - Parameter: Xylene (all isomers) 2000 mg/l (Medium: urine - Time: end of shift - Parameter: Methylhippuric(tolur-)acid (all isomers)
Gibraltar	OEL TWA (mg/m ³)	221 mg/m ³ (pure)
Gibraltar	OEL TWA (ppm)	50 ppm (pure)
Gibraltar	OEL STEL (mg/m ³)	442 mg/m ³ (pure)
Gibraltar	OEL STEL (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

	SAFETY DATA SHEET	Page : 17 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

xylene (1330-20-7)		
Switzerland	VLE (mg/m ³)	870 mg/m ³
Switzerland	VLE (ppm)	200 ppm
Switzerland	VME (mg/m ³)	435 mg/m ³
Switzerland	VME (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
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
Norway	Grenseverdier (Korttidsverdi) (ppm)	37,5 ppm
Poland	NDS (mg/m ³)	100 mg/m ³
Romania	OEL TWA (mg/m ³)	221 mg/m ³
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m ³)	442 mg/m ³
Romania	OEL STEL (ppm)	100 ppm
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

	SAFETY DATA SHEET	Page : 18 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

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 (ppm)	15 ppm
Bulgaria	OEL TWA (mg/m ³)	50,0 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	75,0 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)	0,5 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)	0,1 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Gibraltar	OEL TWA (mg/m ³)	50 mg/m ³
Gibraltar	OEL TWA (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	VME (mg/m ³)	50 mg/m ³
Switzerland	VME (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

	SAFETY DATA SHEET	Page : 19 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

naphthalene (91-20-3)		
Ireland	OEL (8 hours ref) (ppm)	10 ppm
Ireland	OEL (15 min ref) (mg/m ³)	75 mg/m ³
Ireland	OEL (15 min ref) (ppm)	15 ppm
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)	50 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (ppm)	10 ppm
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)	9,5 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

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
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
Belgium	Short time value (mg/m ³)	551 mg/m ³
Belgium	Short time value (ppm)	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

	SAFETY DATA SHEET	Page : 20 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

Ethylbenzene (100-41-4)		
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 (BGW)	300 mg/g (Medium: urine - Time: end of shift - Parameter: Mandelic acid plus Phenylglyoxylic acid)
Gibraltar	OEL TWA (mg/m ³)	442 mg/m ³
Gibraltar	OEL TWA (ppm)	100 ppm
Gibraltar	OEL STEL (mg/m ³)	884 mg/m ³
Gibraltar	OEL STEL (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	VLE (mg/m ³)	220 mg/m ³
Switzerland	VLE (ppm)	50 ppm
Switzerland	VME (mg/m ³)	220 mg/m ³
Switzerland	VME (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

	SAFETY DATA SHEET	Page : 21 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

Ethylbenzene (100-41-4)		
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)	20 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (ppm)	5 ppm
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)	200 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	450 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	100 ppm

Furan (110-00-9)		
Bulgaria	OEL TWA (mg/m ³)	0,5 mg/m ³
Latvia	OEL TWA (mg/m ³)	0,5 mg/m ³
Lithuania	IPRV (mg/m ³)	0,5 mg/m ³

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
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

	SAFETY DATA SHEET	Page : 22 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

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 (ppm)	100 ppm
Bulgaria	OEL TWA (mg/m ³)	192,0 mg/m ³
Bulgaria	OEL TWA (ppm)	50 ppm
Bulgaria	OEL STEL (mg/m ³)	384,0 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 (BGW)	600 µg/l (Medium: whole blood - Time: end of shift - Parameter: Toluene) 1,5 mg/l (Medium: urine - Time: end of several shifts - Parameter: o-Cresol (after hydrolysis))
Gibraltar	OEL TWA (mg/m ³)	192 mg/m ³
Gibraltar	OEL TWA (ppm)	50 ppm
Gibraltar	OEL STEL (mg/m ³)	384 mg/m ³
Gibraltar	OEL STEL (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; manufacturing, commercialization, and use restrictions under REACH)

	SAFETY DATA SHEET	Page : 23 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

Toluene (108-88-3)		
Spain	VLA-ED (ppm)	50 ppm (indicative limit value; manufacturing, commercialization, and use restrictions under REACH)
Spain	VLA-EC (mg/m ³)	384 mg/m ³
Spain	VLA-EC (ppm)	100 ppm
Switzerland	VLE (mg/m ³)	760 mg/m ³
Switzerland	VLE (ppm)	200 ppm
Switzerland	VME (mg/m ³)	190 mg/m ³
Switzerland	VME (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)	94 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (ppm)	25 ppm
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

	SAFETY DATA SHEET	Page : 24 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

Toluene (108-88-3)		
Slovakia	NPHV (Hraničná) (mg/m ³)	384 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	192 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	384 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	100 ppm

Recommended monitoring procedures : Personal air monitoring
Room air monitoring

8.2. Exposure controls

Personal protection 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 under normal use.
Use dedicated equipment.

Engineering control measures : Use only outdoors or in a well-ventilated area.
Organisational measures to prevent /limit releases, dispersion and exposure
Safe handling: see section 7 .
Guarantee that the eye flushing systems and safety showers are closely located to the working place.
Store locked up.
Take precautionary measures against static discharges
Ensure equipment is adequately grounded
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

Odour threshold: : No data available

	SAFETY DATA SHEET	Page : 25 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

pH	:	Not applicable
Freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	44 °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	:	89,649 %
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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

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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	SAFETY DATA SHEET	Page : 26 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

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

2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)	
LD50/oral/rat	470 mg/kg
LC50/inhalation/4h/rat (ppm)	450 ppm/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 (gases)	4500,000 ppmv/4h
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
LD50/dermal/rabbit	> 4350 mg/kg
LC50/inhalation/4h/rat	29,08 mg/l/4h
ATE CLP (oral)	3500 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (gases)	4500,000 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h

naphthalene (91-20-3)	
LD50/oral/rat	1110 mg/kg

	SAFETY DATA SHEET	Page : 27 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

naphthalene (91-20-3)	
LD50/dermal/rat	> 2500 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

Ethylbenzene (100-41-4)	
LD50/oral/rat	3500 mg/kg
LD50/dermal/rabbit	15400 mg/kg
LC50/inhalation/4h/rat	17,2 mg/l/4h
ATE CLP (oral)	3500 mg/kg bodyweight
ATE CLP (dermal)	15400 mg/kg bodyweight
ATE CLP (gases)	4500,000 ppmv/4h
ATE CLP (vapours)	17,2 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h

Furan (110-00-9)	
LC50/inhalation/4h/rat (ppm)	3398 ppm/1h
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (gases)	4500,000 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	2600 mg/kg
LD50/dermal/rabbit	12000 mg/kg
LC50/inhalation/4h/rat	12,5 mg/l/4h
LC50/inhalation/4h/rat (ppm)	> 26700 ppm/1h
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/eye 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.

	SAFETY DATA SHEET	Page : 28 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

Other information

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

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])

2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)	
LC50 fish 1	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

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)

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)

	SAFETY DATA SHEET	Page : 29 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

naphthalene (91-20-3)	
LC50 fish 2	1,6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 2	1,96 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])

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)

Furan (110-00-9)	
LC50 fish 1	57 - 66 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

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

Bioaccumulation : No data available

Partition coefficient n-octanol/water : No data available

12.4. Mobility in soil

Mobility : No data available

12.5. Results of PBT and vPvB assessment

PBT/vPvB data : Not applicable

12.6. Other adverse effects

Other information :

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

	SAFETY DATA SHEET	Page : 30 / 34
	Quickare Fuel Treatment	Revision nr : 2
		Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

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

List of proposed waste codes/waste designations in accordance with EWC : 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.

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)
Proper shipping name IATA/IMDG : FLAMMABLE LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light)

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 liquid



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.

	SAFETY DATA SHEET	Page : 31 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

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

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

Quickare Fuel Treatment - Solvent naphtha (petroleum), light aromatic - 1,2,4-trimethylbenzene - 2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve - xylene - cumene - 1,2,3-trimethylbenzene - mesitylene, 1,3,5-trimethylbenzene - Distillates (petroleum), hydrotreated light - Toluene - Furan - 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

Quickare Fuel Treatment - Solvent naphtha (petroleum), light aromatic - 1,2,4-trimethylbenzene - xylene - cumene - 1,2,3-trimethylbenzene - mesitylene, 1,3,5-trimethylbenzene - Distillates (petroleum), hydrotreated light - Toluene - Furan - 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

Quickare Fuel Treatment - Solvent naphtha (petroleum), light aromatic - 1,2,4-trimethylbenzene - 2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve - xylene - cumene - 1,2,3-trimethylbenzene - Distillates (petroleum), hydrotreated light - naphthalene - Polyolefin alkyl phenol alkyl amine - Substituted Phenol - Toluene - Furan - Ethylbenzene

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

Quickare Fuel Treatment - Solvent naphtha (petroleum), light aromatic - 1,2,4-trimethylbenzene - cumene - mesitylene, 1,3,5-trimethylbenzene - Distillates (petroleum), hydrotreated light - naphthalene - Furan

28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogen category 1A or 1B (Table 3.1) or Carcinogen category 1 or 2 (Table 3.2) and listed as follows: Carcinogen category 1A (Table 3.1)/Carcinogen category 1 (Table 3.2) listed in Appendix 1 Carcinogen category 1B (Table 3.1)/Carcinogen category 2 (Table 3.2) listed in Appendix 2

: Furan

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.

Quickare Fuel Treatment - Solvent naphtha (petroleum), light aromatic - 1,2,4-trimethylbenzene - xylene - cumene - 1,2,3-trimethylbenzene - mesitylene, 1,3,5-trimethylbenzene - Distillates (petroleum), hydrotreated light - Toluene - Furan - Ethylbenzene

48. Toluene

: Toluene

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

: 89,649 %

Special rules on packaging

: Child-resistant fastenings (EN/862/ISO 8317), Tactile warning according to EN/ISO 11683.

	SAFETY DATA SHEET	Page : 32 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

15.1.2. National regulations

DE : WGK : 3

15.2. Chemical safety assessment

Chemical Safety Assessment : Chemical safety assessments for substances in this preparation were not carried out.

SECTION 16: Other information

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

Acute Tox. 4 (Dermal)	: Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	: Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	: Acute toxicity 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
Aquatic Chronic 3	: Hazardous to the aquatic environment - chronic hazard category 3
Asp. Tox. 1	: Aspiration hazard, Category 1
Carc. 1B	: Carcinogenicity, Category 1B
Carc. 2	: Carcinogenicity, Category 2
Eye Dam. 1	: Serious eye damage/eye irritation Category 1
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. 2	: Germ cell mutagenicity, hazard categories 2
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.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H341	: Suspected of causing 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.
H412	: Harmful to aquatic life with long lasting effects.
R10	: Flammable.
R11	: Highly flammable.
R12	: Extremely flammable.
R19	: May form explosive peroxides.
R20	: Harmful by inhalation.
R20/21	: Harmful by inhalation and in contact with skin.
R20/21/22	: Harmful by inhalation, in contact with skin and if swallowed.

	SAFETY DATA SHEET	Page : 33 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

R20/22	: Harmful by inhalation and if swallowed.
R22	: Harmful if swallowed.
R36/37/38	: Irritating to eyes, respiratory system and skin.
R36/38	: Irritating to eyes and skin.
R37	: Irritating to respiratory system.
R38	: Irritating to skin
R40	: Limited evidence of a carcinogenic effect.
R41	: Risk of serious damage to eyes.
R45	: May cause cancer.
R48/20	: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R48/22	: Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53	: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	: Possible risk of harm to the unborn child.
R65	: Harmful: may cause lung damage if swallowed.
R67	: Vapours may cause drowsiness and dizziness.
R68	: Possible risk of irreversible effects.
F	: Highly flammable
F+	: Extremely flammable
N	: Dangerous for the environment
Xi	: Irritant
Xn	: Harmful

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

Safety datasheet sections which have been updated : 2,3,4,11,14,15,16

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
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

	SAFETY DATA SHEET	Page : 34 / 34
		Revision nr : 2
	Quickare Fuel Treatment	Issue date : 31/05/2015
		Supersedes : 25/03/2015
		766-01-0179S

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)

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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