



Cat & Lambda Cleaner

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

MSDS Version: E04.00

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Blend Version: 2

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

1.1. Product identifier

Product name : Cat & Lambda Cleaner

Product code : W24463

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Petrol additive.

Function or use category : Fuel additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Wynn's Belgium
Industriepark-West 46
9100 Sint-Niklaas - Belgium
T +32 3 766 60 20 - F +32 3 778 16 56
msds@wynns.eu - www.wynns.com

1.4. Emergency telephone number

Emergency number : BIG: +32(0)14/58.45.45 (NL FR EN DE)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3	H226
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Muta. 2	H341
STOT SE 3	H335
STOT RE 2	H373
Asp. Tox. 1	H304

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)

:



GHS02



GHS07



GHS08

Signal word (CLP) : Danger

Hazardous ingredients : 2-butoxyethanol; 2-ethylhexan-1-ol; Di-tert-butyl peroxide; reaction mass of ethylbenzene and xylene ; distillates (Fischer-Tropsch), C8-26, branched and linear

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.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H341 - Suspected of causing genetic defects.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (CLP) : P102 - Keep out of reach of children.

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P405 - Store locked up.
P210 - Keep away from heat, hot surfaces, open flames, sparks. No smoking.
P260 - Do not breathe vapours.
P280 - Wear face shield, protective gloves, protective clothing.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor
P331 - Do NOT induce vomiting.
P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% w	Classification according to Regulation (EC) No. 1272/2008 [CLP]
distillates (Fischer-Tropsch), C8-26, branched and linear	(CAS-No.) 848301-67-7 (EC-No.) 481-740-5 (REACH-no) 01-0000020119-75	10 - 25	Asp. Tox. 1, H304
2-butoxyethanol	(CAS-No.) 111-76-2 (EC-No.) 203-905-0 (EC Index-No.) 603-014-00-0 (REACH-no) 01-2119475108-36	10 - 25	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
2-ethylhexan-1-ol	(CAS-No.) 104-76-7 (EC-No.) 203-234-3 (REACH-no) 01-2119487289-20	10 - 25	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
reaction mass of ethylbenzene and xylene	(EC-No.) 905-588-0 (REACH-no) 01-2119488216-32	10 - 25	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
polyetheramine	(CAS-No.) 224622-34-8	10 - 25	Skin Irrit. 2, H315 Aquatic Chronic 3, H412
Di-tert-butyl peroxide	(CAS-No.) 110-05-4 (EC-No.) 203-733-6 (EC Index-No.) 617-001-00-2 (REACH-no) 01-2119513335-48	5 - 10	Flam. Liq. 2, H225 Org. Perox. E, H242 Muta. 2, H341 Aquatic Chronic 3, H412
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	(EC-No.) 919-164-8 (REACH-no) 01-2119473977-17	1 - 2,5	STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Name	Product identifier	Specific concentration limits	
reaction mass of ethylbenzene and xylene	(EC-No.) 905-588-0 (REACH-no) 01-2119488216-32	(C >= 10) STOT RE 2, H373	

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Keep victim at rest in half upright position. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Keep watching the victim. Give psychological aid. Prevent cooling by covering the victim (no warming up). Keep the victim calm, avoid physical strain. If necessary seek medical advice.

First-aid measures after inhalation

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.

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First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: If swallowed, rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/effects	: Suspected of causing genetic defects.
Symptoms/effects after inhalation	: Harmful if inhaled.
Symptoms/effects after skin contact	: Repeated exposure may cause skin dryness or cracking. Harmful in contact with skin. Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Abdominal pain. Headache. Risk of aspiration pneumonia. May be fatal if swallowed and enters airways.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. AFFF foam. ABC-powder.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour. Take precautionary measures against static discharges. The vapours are denser than air and may travel along the ground. Distance ignition possible.
Explosion hazard	: No direct explosion hazard.

5.3. Advice for firefighters

Firefighting instructions	: Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Use special care to avoid static electric charges. No open flames. No smoking.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable gloves and eye/face protection. protective clothing.
Emergency procedures	: Mark the danger area. Ventilate spillage area. Prevent flow to low areas. In confined space use self-contained breathing apparatus. Take off contaminated clothing.

6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
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6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Contain leaking substance, pump over in suitable containers.
Methods for cleaning up	: Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean preferably with a detergent - Avoid the use of solvents.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Meet the legal requirements. Repeated exposure may cause skin dryness or cracking. Provide good ventilation in process area to prevent formation of vapour. Presents no particular risk when handled in accordance with good occupational hygiene practice.
Hygiene measures	: Use good personal hygiene practices. Take off immediately all contaminated clothing and wash it before reuse. IF ON SKIN: Gently wash with plenty of soap and water.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Take precautionary measures against static discharge. Does not require any specific or particular technical measures.
Storage conditions	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. Store in a well-ventilated place. Meet the legal requirements. Keep container tightly closed.
Storage temperature	: < 45 °C
Storage area	: Meet the legal requirements. Protect from heat and direct sunlight. Fireproof storeroom. Ventilation along the floor.
Special rules on packaging	: Keep only in original container. Labelling according to.

7.3. Specific end use(s)

Read label before use. Observe the label precautions. See product bulletin for detailed information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-butoxyethanol (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
EU	Notes	Skin
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
France	VLE (mg/m ³)	246 mg/m ³
France	VLE (ppm)	50 ppm
France	VME (mg/m ³)	49 mg/m ³
France	VME (ppm)	10 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	100 mg/m ³
Netherlands	Grenswaarde TGG 8H (ppm)	20 ppm
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	246 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (ppm)	50 ppm
Hungary	AK-érték	98 mg/m ³
Hungary	CK-érték	246 mg/m ³

2-ethylhexan-1-ol (104-76-7)

EU	IOELV TWA (mg/m ³)	5,4 mg/m ³
EU	IOELV TWA (ppm)	1 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	110 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Belgium	Limit value (mg/m ³)	533 mg/m ³
Belgium	Limit value (ppm)	100 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	100 ppm

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distillates (Fischer-Tropsch), C8-26, branched and linear (848301-67-7)

PNEC (Sediment)

PNEC sediment (freshwater) 2,06 mg/kg dwt

PNEC (Soil)

PNEC soil 1,68 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 10 mg/l

2-butoxyethanol (111-76-2)

DNEL/DMEL (Workers)

Acute - systemic effects, dermal 89 mg/kg bodyweight/day

Acute - systemic effects, inhalation 1091 mg/m³

Long-term - systemic effects, dermal 125 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 98 mg/m³

Long-term - local effects, inhalation 246 mg/m³

DNEL/DMEL (General population)

Acute - systemic effects, dermal 89 mg/kg bodyweight

Acute - systemic effects, inhalation 426 mg/m³

Acute - systemic effects, oral 26,7 mg/kg bodyweight

Long-term - systemic effects, oral 6,3 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 59 mg/m³

Long-term - systemic effects, dermal 75 mg/kg bodyweight/day

Long-term - local effects, inhalation 147 mg/m³

PNEC (Water)

PNEC aqua (freshwater) 8,8 mg/l

PNEC aqua (marine water) 0,88 mg/l

PNEC aqua (intermittent, freshwater) 9,1 mg/l

PNEC (Sediment)

PNEC sediment (freshwater) 34,6 mg/kg dwt

PNEC sediment (marine water) 3,46 mg/kg dwt

PNEC (Soil)

PNEC soil 2,33 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 463 mg/l

2-ethylhexan-1-ol (104-76-7)

DNEL/DMEL (Workers)

Acute - local effects, inhalation 53,2 mg/m³

Long-term - systemic effects, dermal 23 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 12,8 mg/m³

Long-term - local effects, inhalation 53,2 mg/m³

DNEL/DMEL (General population)

Acute - local effects, inhalation 26,6 mg/m³

Long-term - systemic effects, oral 1,1 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 2,3 mg/m³

Long-term - systemic effects, dermal 11,4 mg/kg bodyweight/day

Long-term - local effects, inhalation 26,6 mg/m³

PNEC (Water)

PNEC aqua (freshwater) 0,017 mg/l

PNEC aqua (marine water) 0,0017 mg/l

PNEC aqua (intermittent, freshwater) 0,17 mg/l

PNEC (Sediment)

PNEC sediment (freshwater) 0,284 mg/kg dwt

PNEC sediment (marine water) 0,0284 mg/kg dwt

PNEC (Soil)

PNEC soil 0,047 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 10 mg/l

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reaction mass of ethylbenzene and xylene

DNEL/DMEL (Workers)

Acute - systemic effects, inhalation	442 mg/m ³
Acute - local effects, inhalation	442 mg/m ³
Long-term - systemic effects, dermal	212 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	221 mg/m ³
Long-term - local effects, inhalation	221 mg/m ³

DNEL/DMEL (General population)

Acute - systemic effects, inhalation	260 mg/m ³
Acute - local effects, inhalation	260 mg/m ³
Long-term - systemic effects, oral	12,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	65,3 mg/m ³
Long-term - systemic effects, dermal	125 mg/kg bodyweight/day
Long-term - local effects, inhalation	65,3 mg/m ³

PNEC (Water)

PNEC aqua (freshwater)	0,327 mg/l
PNEC aqua (marine water)	0,327 mg/l
PNEC aqua (intermittent, freshwater)	0,327 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	12,46 mg/kg dwt
PNEC sediment (marine water)	12,46 mg/kg dwt

PNEC (Soil)

PNEC soil	2,31 mg/kg dwt
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Di-tert-butyl peroxide (110-05-4)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	20 mg/m ³

PNEC (Water)

PNEC aqua (freshwater)	0,144 mg/l
PNEC aqua (marine water)	0,014 mg/l
PNEC aqua (intermittent, freshwater)	0,36 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	15 mg/kg dwt
PNEC sediment (marine water)	1,5 mg/kg dwt

PNEC (Soil)

PNEC soil	2,94 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	10 mg/l
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8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide good ventilation in process area to prevent formation of vapour. Does not require any specific or particular technical measures.

Personal protective equipment

: Gloves. Safety glasses.



Hand protection

: Neoprene. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer.

Other information

: Breakthrough time : >30'. Thickness of the glove material >0,1 mm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear.
Colour	: light yellow.

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Odour	: characteristic.
Odour threshold	: No data available
pH	:
Relative evaporation rate (butylacetate=1)	: No data available
refraction index	: 1,44
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 34 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density @20°C	: 848 kg/m ³
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic @40°C	: 2,56 mm ² /s
Viscosity, dynamic @40°C	: No data available
Viscosity	:
Viscosity Index	:
Explosive properties	: No data available
Oxidising properties	: Non oxidizing material according to EC criteria.
Explosive limits	: No data available

9.2. Other information

VOC content	: 85,96 %
Additional information	: The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On burning: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Harmful: may cause lung damage if swallowed
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ATE CLP (dust,mist)	2,689 mg/l/4h
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distillates (Fischer-Tropsch), C8-26, branched and linear (848301-67-7)

LD50 oral rat	> 5000 mg/kg bodyweight Sprague-Dawley
LD50 dermal rat	> 2000 mg/kg bodyweight Sprague-Dawley

2-butoxyethanol (111-76-2)

LD50 oral rat	1746 mg/kg bodyweight COBS, CD, BR
LD50 dermal rat	> 2000 mg/kg bodyweight Sprague-Dawley
LD50 dermal rabbit	24h 435 mg/kg bodyweight New Zealand White
LC50 inhalation rat (mg/l)	2,2 mg/l/4h Fischer 344
ATE CLP (oral)	1746 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (vapours)	2,2 mg/l/4h
ATE CLP (dust,mist)	2,2 mg/l/4h

2-ethylhexan-1-ol (104-76-7)

LD50 oral rat	3290 mg/kg
LD50 dermal rabbit	> 3000 mg/kg
LC50 inhalation rat (mg/l)	1,1 mg/l/4h
ATE CLP (oral)	3290 mg/kg bodyweight
ATE CLP (dermal)	3000 mg/kg bodyweight
ATE CLP (vapours)	1,1 mg/l/4h
ATE CLP (dust,mist)	1,1 mg/l/4h

reaction mass of ethylbenzene and xylene

LD50 oral rat	3523 mg/kg bodyweight F344/N
LD50 dermal rabbit	12126 mg/kg bodyweight New Zealand White
ATE CLP (oral)	3523 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

Di-tert-butyl peroxide (110-05-4)

LD50 oral rat	> 2000 mg/kg bodyweight Wistar
LD50 dermal rat	> 2000 mg/kg bodyweight Wistar
LC50 inhalation rat (mg/l)	> 22 mg/l/4h Wistar

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

LD50 oral rat	> 15000 mg/kg
LD50 dermal rabbit	> 3400 mg/kg
LC50 inhalation rat (mg/l)	> 13,1 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

distillates (Fischer-Tropsch), C8-26, branched and linear (848301-67-7)

LC50 fish 1	> 1000 mg/l @96h Pimephales promelas
EC50 Daphnia 1	> 1000 mg/l @48h Daphnia magna
EC50 other aquatic organisms 1	> 1000 mg/l @72h Pseudokirchneriella subcapitata
NOEC (acute)	> 1000 mg/l @48h Daphnia magna

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2-butoxyethanol (111-76-2)

LC50 fish 1	96h 1464 mg/l Oncorhynchus mykiss
EC50 Daphnia 1	48h 1800 mg/l Daphnia magna
EC50 other aquatic organisms 1	72h 911 mg/l Pseudokirchneriella subcapitata
NOEC (acute)	72h 88 mg/l Pseudokirchneriella subcapitata

2-ethylhexan-1-ol (104-76-7)

LC50 fish 1	96h 28,2 mg/l pimephales promelas
EC50 Daphnia 1	48h 39 mg/l daphnia magna
EC50 other aquatic organisms 1	72h 11,5 mg/l algae (desmodesmus subspicatus)

reaction mass of ethylbenzene and xylene

LC50 fish 1	> 2,6 mg/l @96h
EC50 other aquatic organisms 1	72h 2,2 mg/l

Di-tert-butyl peroxide (110-05-4)

LC50 fish 1	96h 805,089 mg/l Pimephales promelas
EC50 Daphnia 1	> 73,1 mg/l @48h Daphnia magna
EC50 other aquatic organisms 1	≈ 15 mg/l @72h Pseudokirchneriella subcapitata

12.2. Persistence and degradability

distillates (Fischer-Tropsch), C8-26, branched and linear (848301-67-7)

Persistence and degradability	Readily biodegradable.
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2-butoxyethanol (111-76-2)

Persistence and degradability	Readily biodegradable.
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2-ethylhexan-1-ol (104-76-7)

Persistence and degradability	Readily biodegradable.
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12.3. Bioaccumulative potential

distillates (Fischer-Tropsch), C8-26, branched and linear (848301-67-7)

Log Pow	> 6,5 @40°C
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2-butoxyethanol (111-76-2)

Bioaccumulative potential	Slightly bioaccumulative.
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2-ethylhexan-1-ol (104-76-7)

Bioaccumulative potential	No bioaccumulation.
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Di-tert-butyl peroxide (110-05-4)

Log Pow	3,2 @22°C
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12.4. Mobility in soil

2-butoxyethanol (111-76-2)

Ecology - soil	Small adsorption.
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12.5. Results of PBT and vPvB assessment

2-ethylhexan-1-ol (104-76-7)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Remove to an authorized waste treatment plant. Avoid release to the environment.
European List of Waste (LoW) code	: 18 01 06* - chemicals consisting of or containing dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

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SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 1993

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, N.O.S.

Transport document description (ADR) : UN 1993 FLAMMABLE LIQUID, N.O.S. (xylenes, di-tert-butylperoxide), 3, III, (D/E)

14.3. Transport hazard class(es)

Class (ADR) : 3

Danger labels (ADR) : 3



14.4. Packing group

Packing group (ADR) : III

14.5. Environmental hazards

Other information : No supplementary information available.

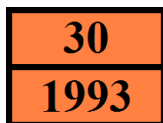
14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 30

Classification code (ADR) : F1

Orange plates :



Special provisions (ADR) : 274, 601, 640E

Transport category (ADR) : 3

Tunnel restriction code (ADR) : D/E

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E1

EAC code : •3YE

14.6.2. Transport by sea

EmS-No. (1) : F-E, S-E

14.6.3. Air transport

Instruction "cargo" (ICAO) : 366

Instruction "passenger" (ICAO) : 355

Instruction "passenger" - Limited quantities (ICAO) : Y344

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 85,96 %

Cat & Lambda Cleaner

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

15.1.2. National regulations

Water hazard class (WGK) : 2 - significant hazard to water

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Org. Perox. E	Organic Peroxides, Type E
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

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