



Hydraulic Valve Lifter Concentrate

Safety Data Sheet

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

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

1.1. Product identifier

Product name : Hydraulic Valve Lifter Concentrate

Product code : W76841

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 : Oil additive

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]

Eye Irrit. 2 H319

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) :



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P102 - Keep out of reach of children.
P280 - Wear eye protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
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]
2-(2-butoxyethoxy)ethanol	(CAS-No.) 112-34-5 (EC-No.) 203-961-6	1 - 2,5	Eye Irrit. 2, H319

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	(EC Index-No.) 603-096-00-8 (REACH-no) 01-2119475104-44		
4-methylpentan-2-ol	(CAS-No.) 108-11-2 (EC-No.) 203-551-7 (EC Index-No.) 603-008-00-8 (REACH-no) 01-2119473979-13	1 - 2,5	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335
Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil - unspecified	(CAS-No.) 64742-65-0 (EC-No.) 265-169-7 (EC Index-No.) 649-474-00-6 (REACH-no) 01-2119471299-27	1 - 2,5	Not classified
Cyclohexanone	(CAS-No.) 108-94-1 (EC-No.) 203-631-1 (EC Index-No.) 606-010-00-7 (REACH-no) 01-2119453616-35	<= 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318
C16-18-(even numbered, saturated and unsatd.)-alkylamines (Oleylamine)	(CAS-No.) 1213789-63-9 (112-90-3) (EC-No.) 627-034-4 (204-015-5) (REACH-no) 01-2119473797-19	0,01 - 0,02	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Name	Product identifier	Specific concentration limits
4-methylpentan-2-ol	(CAS-No.) 108-11-2 (EC-No.) 203-551-7 (EC Index-No.) 603-008-00-8 (REACH-no) 01-2119473979-13	(C >= 25) STOT SE 3, H335

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 occurs: Get medical advice/attention.
- 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.

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

No additional information available

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 : None to our knowledge. If there is a fire close by, use suitable extinguishing agents. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Combustible liquid.
- Explosion hazard : Product is not explosive.

5.3. Advice for firefighters

- Firefighting instructions : Prevent fire fighting water from entering the environment.

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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 : Spill area may be slippery.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable gloves and eye/face protection. protective clothing.

Emergency procedures : Mark the danger area. Take off contaminated clothing. Prevent flow to low areas.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. 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".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Meet the legal requirements. Presents no particular risk when handled in accordance with good occupational hygiene practice.

Hygiene measures : Use good personal hygiene practices. IF ON SKIN: Gently wash with plenty of soap and water. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Does not require any specific or particular technical measures.

Storage conditions : Store in a dry place. Meet the legal requirements.

Storage area : Meet the legal requirements. Protect from heat and direct sunlight.

Special rules on packaging : Store in a closed container.

7.3. Specific end use(s)

See product bulletin for detailed information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

4-methylpentan-2-ol (108-11-2)

Belgium	Limit value (mg/m ³)	106 mg/m ³
Belgium	Limit value (ppm)	25 ppm
Belgium	Short time value (mg/m ³)	169 mg/m ³
Belgium	Short time value (ppm)	40 ppm
Belgium	Remark (BE)	D
France	VME (mg/m ³)	100 mg/m ³
France	VME (ppm)	25 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	85 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	25 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	40 ppm
United Kingdom	WEL TWA (mg/m ³)	106 mg/m ³
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (mg/m ³)	170 mg/m ³

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4-methylpentan-2-ol (108-11-2)

United Kingdom WEL STEL (ppm) 40 ppm

2-(2-butoxyethoxy)ethanol (112-34-5)

EU IOELV TWA (mg/m³) 67,5 mg/m³
EU IOELV TWA (ppm) 10 ppm
EU IOELV STEL (mg/m³) 101,2 mg/m³
EU IOELV STEL (ppm) 15 ppm
Belgium Limit value (mg/m³) 67,5 mg/m³
Belgium Limit value (ppm) 10 ppm
Belgium Short time value (mg/m³) 101,2 mg/m³
Belgium Short time value (ppm) 15 ppm
France VLE (mg/m³) 67,5 mg/m³
France VLE (ppm) 10 ppm
France VME (mg/m³) 101,2 mg/m³
France VME (ppm) 15 ppm

Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil - unspecified (64742-65-0)

EU IOELV TWA (mg/m³) 5 mg/m³
Italy - Portugal - USA ACGIH TWA (mg/m³) 5 mg/m³
ACGIH

Cyclohexanone (108-94-1)

EU IOELV TWA (mg/m³) 40,8 mg/m³
EU IOELV TWA (ppm) 10 ppm
EU IOELV STEL (mg/m³) 81,6 mg/m³
EU IOELV STEL (ppm) 20 ppm
Belgium Limit value (mg/m³) 40,8 mg/m³
Belgium Limit value (ppm) 10 ppm
Belgium Short time value (mg/m³) 81,6 mg/m³
Belgium Short time value (ppm) 20 ppm
Belgium Remark (BE) D

4-methylpentan-2-ol (108-11-2)

DNEL/DMEL (Workers)

Acute - systemic effects, inhalation 208 mg/m³
Acute - local effects, inhalation 104 mg/m³
Long-term - systemic effects, dermal 11,8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 83 mg/m³
Long-term - local effects, inhalation 83 mg/m³

DNEL/DMEL (General population)

Acute - systemic effects, inhalation 155,2 mg/m³
Acute - local effects, inhalation 52,1 mg/m³
Long-term - systemic effects, oral 4,2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation 14,7 mg/m³
Long-term - systemic effects, dermal 4,2 mg/kg bodyweight/day
Long-term - local effects, inhalation 14,7 mg/m³

PNEC (Water)

PNEC aqua (freshwater) 0,6 mg/l
PNEC aqua (marine water) 0,06 mg/l
PNEC aqua (intermittent, freshwater) 3,3 mg/l

PNEC (Sediment)

PNEC sediment (freshwater) 2,94 mg/kg dwt
PNEC sediment (marine water) 0,3 mg/kg dwt

PNEC (Soil)

PNEC soil 0,24 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 1 mg/l

2-(2-butoxyethoxy)ethanol (112-34-5)

DNEL/DMEL (Workers)

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2-(2-butoxyethoxy)ethanol (112-34-5)

Acute - local effects, inhalation	101,2 mg/m ³
Long-term - systemic effects, dermal	83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	67,5 mg/m ³
Long-term - local effects, inhalation	67,5 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	60,7 mg/m ³
Long-term - systemic effects,oral	5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	40,5 mg/m ³
Long-term - systemic effects, dermal	50 mg/kg bodyweight/day
Long-term - local effects, inhalation	40,5 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	1,1 mg/l
PNEC aqua (marine water)	0,11 mg/l
PNEC aqua (intermittent, freshwater)	11 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	4,4 mg/kg dwt
PNEC sediment (marine water)	0,44 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,32 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	56 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	200 mg/l

Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil - unspecified (64742-65-0)

PNEC (Oral)	
PNEC oral (secondary poisoning)	9,33 mg/kg food

Cyclohexanone (108-94-1)

DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	100 mg/kg bodyweight/day
Acute - local effects, inhalation	100 mg/m ³
Long-term - systemic effects, dermal	10 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	100 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	30 mg/kg bodyweight
Acute - systemic effects, inhalation	50 mg/m ³
Acute - systemic effects, oral	10 mg/kg bodyweight
Acute - local effects, inhalation	50 mg/m ³
Long-term - systemic effects,oral	5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	20 mg/m ³
Long-term - systemic effects, dermal	20 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,033 mg/l
PNEC aqua (marine water)	0,003 mg/l
PNEC aqua (intermittent, freshwater)	0,329 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,095 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,014 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

4-hydroxy-4-methylpentan-2-one (123-42-2)

DNEL/DMEL (Workers)	
Acute - local effects, inhalation	240 mg/m ³
Long-term - systemic effects, dermal	9,4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	66,4 mg/m ³
Long-term - local effects, inhalation	66,4 mg/m ³

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4-hydroxy-4-methylpentan-2-one (123-42-2)

DNEL/DMEL (General population)	
Acute - local effects, inhalation	120 mg/m ³
Long-term - systemic effects, oral	3,4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	11,8 mg/m ³
Long-term - systemic effects, dermal	3,4 mg/kg bodyweight/day
Long-term - local effects, inhalation	11,8 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	2 mg/l
PNEC aqua (marine water)	0,2 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	9,06 mg/kg dwt
PNEC sediment (marine water)	0,91 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,63 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

N-phenylbenzenamine, reaction products with 2,4,4-trimethylpentene (68411-46-1)

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0,08 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,6 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0,04 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,14 mg/m ³
Long-term - systemic effects, dermal	0,04 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,034 mg/l
PNEC aqua (marine water)	0,003 mg/l
PNEC aqua (intermittent, freshwater)	0,51 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,446 mg/kg dwt
PNEC sediment (marine water)	0,045 mg/kg dwt
PNEC (Soil)	
PNEC soil	2,59 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

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. 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.

Eye protection

: Protective goggles.

Respiratory protection

: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

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	: Viscous.

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Colour	: brown.
Odour	: Oily.
Odour threshold	: No data available
pH	:
Relative evaporation rate (butylacetate=1)	: No data available
refraction index	: 1,492
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 63 °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	: 904 kg/m ³
Solubility	: insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic @40°C	: 18,91 mm ² /s
Viscosity, dynamic @40°C	: No data available
Viscosity	: 3,55 mm ² /s @100°C
Viscosity Index	: 37
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 3 %
Other properties	: Dimethylsulfoxide (DMSO) <3%.
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

Combustible liquid. 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	: Not classified
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4-methylpentan-2-ol (108-11-2)

LD50 oral rat	2590 mg/kg bodyweight
LD50 dermal rabbit	2870 mg/kg bodyweight
LC50 inhalation rat (mg/l)	> 16 mg/l/4h Wistar
ATE CLP (oral)	2590 mg/kg bodyweight
ATE CLP (dermal)	2870 mg/kg bodyweight

2-(2-butoxyethoxy)ethanol (112-34-5)

LD50 oral rat	7291 mg/kg bodyweight COBS, CD, BR
LD50 dermal rabbit	2764 mg/kg bodyweight New Zealand White
LC50 inhalation rat (ppm)	> 29 ppm @2h
ATE CLP (oral)	7291 mg/kg bodyweight
ATE CLP (dermal)	2764 mg/kg bodyweight

Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil - unspecified (64742-65-0)

LD50 oral rat	> 5000 mg/kg bodyweight Sprague-Dawley
LD50 dermal rabbit	> 2000 mg/kg bodyweight New Zealand White
LC50 inhalation rat (mg/l)	> 5,53 mg/l/4h Sprague-Dawley

Cyclohexanone (108-94-1)

LD50 oral rat	1890 mg/kg bodyweight
LD50 dermal rabbit	1100 mg/kg bodyweight
LC50 inhalation rat (mg/l)	11 mg/l/4h
ATE CLP (oral)	1890 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

C16-18-(even numbered, saturated and unsatd.)-alkylamines (Oleylamine) (1213789-63-9 (112-90-3))

LD50 oral rat	1689 mg/kg bodyweight Sprague-Dawley
ATE CLP (oral)	1689 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

4-methylpentan-2-ol (108-11-2)

LC50 fish 1	> 92,4 mg/l @96h Pimephales promelas
EC50 Daphnia 1	48h 337 mg/l Daphnia magna
EC50 other aquatic organisms 1	96h 334 mg/l Pseudokirchneriella subcapitata
NOEC (acute)	48h 288 mg/l Daphnia magna

2-(2-butoxyethoxy)ethanol (112-34-5)

LC50 fish 1	96h 1300 mg/l Lepomis macrochirus
EC50 Daphnia 1	24h 2850 mg/l Daphnia magna
EC50 other aquatic organisms 1	72h 1101 mg/l Pseudokirchnerella subcapitata

Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil - unspecified (64742-65-0)

LC50 fish 1	> 100 mg/l @96h Pimephales promelas
EC50 Daphnia 1	> 10000 mg/l @48h Daphnia magna
EC50 other aquatic organisms 1	<= 100 mg/l @72h Pseudokirchneriella subcapitata

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Cyclohexanone (108-94-1)

LC50 fish 1	96h 527 (\leq 732) mg/l Pimephales promelas
EC50 Daphnia 1	24h 800 mg/l Daphnia magna
EC50 other aquatic organisms 1	72h 32,9 mg/l Chlamydomonas reinhardtii

C16-18-(even numbered, saturated and unsatd.)-alkylamines (Oleylamine) (1213789-63-9 (112-90-3))

LC50 fish 1	96h 0,06 mg/l Pimephales promelas
EC50 Daphnia 1	48h 0,98 mg/l Daphnia magna
EC50 other aquatic organisms 1	72h 0,46 mg/l Desmodesmus subspicatus
EC50 other aquatic organisms 2	96h 0,04 mg/l Pseudokirchnerella subcapitata

12.2. Persistence and degradability

4-methylpentan-2-ol (108-11-2)

Persistence and degradability Readily biodegradable in water. easily degradable in the soil.

Cyclohexanone (108-94-1)

Persistence and degradability Readily biodegradable.

12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol (112-34-5)

Log Pow 1

Cyclohexanone (108-94-1)

Bioaccumulative potential Bioaccumulation unlikely.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose 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	: 12 01 12* - spent waxes and fats 15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

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

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

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14.6.3. Air transport

No additional information available

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 : 3 %

15.1.2. National regulations

Water hazard class (WGK) : 1 - low hazard to waters

15.2. Chemical safety assessment

No additional information available

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 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.

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