



# Eurol Lube 68-S

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 4-10-2017 Revision date: 27-3-2025 Supersedes: 26-8-2024 Version: 3.1

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Eurol Lube 68-S  
Product code : S003033  
Product group : Trade product

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

##### Relevant identified uses

Intended for general public  
Main use category : Industrial use, Professional use, Consumer use  
Use of the substance/mixture : Lubricant  
Function or use category : Lubricants and additives

#### 1.3. Details of the supplier of the safety data sheet

Eurol B.V.  
Energiestraat 12  
NL-7442 DA Nijverdal  
The Netherlands  
Tel: +31 548 615 165  
[reach@eurol.com](mailto:reach@eurol.com) - [www.eurol.com](http://www.eurol.com)

#### 1.4. Emergency telephone number

Emergency number : For Transport Emergency Call +31 88 303 7598 (24hr/day 7days/week)

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	112 +356 2545 6508	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment – Chronic Hazard, H412  
Category 3

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

##### Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

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### 2.2. Label elements

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

CLP Signal word	:	-
Hazard statements (CLP)	:	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	:	P102 - Keep out of reach of children. P273 - Avoid release to the environment. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	:	EUH208 - Contains Alkyl dithiophosphate. May produce an allergic reaction.
Child-resistant fastening	:	Not applicable
Tactile warning	:	Not applicable

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	phenol, dodecyl-, branched (121158-58-5)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	phenol, dodecyl-, branched (121158-58-5)

The mixture contains substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Component	
Substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	phenol, dodecyl-, branched (121158-58-5)

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized, including distillates (petroleum), heavy paraffinic C10-C50	CAS-No.: 68784-26-9 EC-No.: 701-251-5 REACH-no: 01-2119524004-56	1 – 3	Aquatic Chronic 4, H413
Highly refined mineral oil (C15 -C50) substance with a Community workplace exposure limit (Note L)	REACH-no: 01-2119484627-25; 01-2119487077-29; 01-2119471299-27	0,1 – 1	Not classified
2,6-Di-tert-butyl-p-cresol substance with national workplace exposure limit(s) (GB, IE); substance with a Community workplace exposure limit	CAS-No.: 128-37-0 EC-No.: 204-881-4 REACH-no: 01-2119555270-46	0,1 – 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Alkyl Amine Phosphate	-	0,1 – 1	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
phenol, dodecyl-, branched substance listed on REACH Candidate List (Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)) substance identified as having endocrine disrupting properties	CAS-No.: 121158-58-5 EC-No.: 310-154-3 EC Index-No.: 604-092-00-9 REACH-no: 01-2119513207-49	0,1 – 1	Skin Corr. 1C, H314 Repr. 1B, H360F Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
ethane-1,2-diol substance with national workplace exposure limit(s) (GB, IE, MT); substance with a Community workplace exposure limit	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816-28	0,1 – 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) STOT RE 2, H373
Alkyl dithiophosphate	-	0,1 – 1	Skin Sens. 1B, H317 Aquatic Chronic 4, H413

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation	: At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.
Symptoms/effects after skin contact	: Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis. High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.
Symptoms/effects after eye contact	: Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
Symptoms/effects after ingestion	: Bad taste. Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.
Symptoms/effects upon intravenous administration	: Unknown.

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

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Combustion generates: CO, CO<sub>2</sub>, POx, NOx, SOx, H<sub>2</sub>S. Metal oxides.  
Explosion hazard : Not expected to be a fire/explosion hazard under normal conditions of use.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

- Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.  
Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.  
Other information : Prevent fire fighting water from entering the environment. Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.  
Absorb spillage to prevent material damage.

##### For non-emergency personnel

- Protective equipment : When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required. Use protective clothing.  
Emergency procedures : Ventilate spillage area.

##### For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed	: Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Keep container tightly closed and in well ventilated place.
Storage conditions	: Keep cool. Protect from sunlight.
Incompatible products	: Reacts vigorously with strong oxidizers and acids.
Maximum storage period	: 5 year
Storage temperature	: ≤ 40 °C
Information on mixed storage	: Keep away from : Oxidizing materials. Strong acids.
Storage area	: Store at ambient temperature.
Special rules on packaging	: Keep container tightly closed and dry.
Packaging materials	: Store always product in container of same material as original container.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### National occupational exposure and biological limit values

Highly refined mineral oil (C15 -C50)	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOELV TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>ethane-1,2-diol (107-21-1)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Ethylene glycol
IOELV TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
IOELV TWA (ppm)	20 ppm
IOELV STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
IOELV STEL (ppm)	40 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Ethane-1,2-diol [Ethylene glycol]
OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> particulate 52 mg/m <sup>3</sup> vapour
OEL (8 hours ref) (ppm)	20 ppm vapour
OEL (15 min ref) (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> vapour

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<b>ethane-1,2-diol (107-21-1)</b>	
OEL (15 min ref) (ppm)	40 ppm vapour
Remark	IOELV (Indicative Occupational Exposure Limit Values), Skin (Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body. A substantial contribution to the total body burden via dermal exposure is possible)
Regulatory reference	Chemical Agents Code of Practice 2024
<b>Malta - Occupational Exposure Limits</b>	
Local name	Ethylene glycol
OEL TWA (mg/m <sup>3</sup> )	52 mg/m <sup>3</sup>
OEL TWA (ppm)	20 ppm
OEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
OEL STEL (ppm)	40 ppm
Remark	Skin # Ġilda
Regulatory reference	S.L. 424.24 - Chemical Agents at Work Regulations (L.N. 356 of 2021) # L.S. 424.24 - Regolamenti dwar Aġenti Kimiċi fuq il-Post tax-Xogħol (A.L. 356 tal-2021)
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Ethane-1,2-diol
WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> particulate 52 mg/m <sup>3</sup> vapour
WEL TWA (ppm)	20 ppm vapour
WEL STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup> vapour
WEL STEL (OEL STEL) [ppm]	40 ppm vapour
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>2,6-Di-tert-butyl-p-cresol (128-37-0)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOELV TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
Local name	2,6-Ditertiary-butyl-para-cresol [Butylated hydroxytoluene (BHT)]
OEL (8 hours ref) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	2,6-Di-tert-butyl-p-cresol
WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

### DNEL and PNEC

Exposure-value for oil mist : 10 mg/m<sup>3</sup> (15 min.) or 5 mg/m<sup>3</sup> (8 hours).

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### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

##### Personal protective equipment:

Gloves. In case of splash hazard: safety glasses. Eye protection should only be necessary where liquid could be splashed or sprayed.

##### Personal protective equipment symbol(s):



#### Eye and face protection

##### Eye protection:

Safety glasses

#### Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

#### Other skin protection

##### Materials for protective clothing:

PVC gloves. Neoprene or nitrile rubber gloves

#### Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

#### Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

##### Consumer exposure controls:

PVC gloves. Neoprene or nitrile rubber gloves.

##### Other information:

Do not put the product-soaked rags into the pockets of working clothes. Do not use cloths stained with the product to dry hands. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke during use. Wash contaminated clothing before reuse.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: amber.
Appearance	: Oily. Liquid.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: -39 °C ASTM D 97
Freezing point	: Not available
Boiling point	: > 280 °C
Flammability (solid, gas)	: Non flammable.
Lower explosive limit (LEL)	: 0,6 vol %
Upper explosive limit (UEL)	: 7 vol %
Flash point	: > 180 °C ASTM D 93
Auto-ignition temperature	: > 240 °C
Decomposition temperature	: Not available

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pH	: Not available
Viscosity, kinematic	: 68 mm <sup>2</sup> /s at 40 °C, ASTM D 445
Solubility	: insoluble in water.
Log Kow	: Not available
Vapour Pressure 20°C	: < 0,1 hPa
Vapour pressure at 50°C	: Not available
Density	: 0,86 – 0,88 kg/l ASTM D 4052
Relative density	: Not available
Relative vapour density at 20°C	: > 1 (air=1)
Particle characteristics	: Not applicable

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosion limits : 0,6 – 7 vol %

#### Other safety characteristics

Relative evaporation rate (butylacetate=1) : < 0,1  
VOC content : 0 %  
Other properties : Gas/vapour heavier than air at 20°C

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

### 10.4. Conditions to avoid

Moisture. Overheating.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong acids.

### 10.6. Hazardous decomposition products

CO, CO<sub>2</sub>, PO<sub>x</sub>, NO<sub>x</sub>, SO<sub>x</sub>, H<sub>2</sub>S. Metal oxides.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

#### ethane-1,2-diol (107-21-1)

LD50 oral rat	7712 mg/kg bodyweight Animal: rat
LD50 dermal	> 3500 mg/kg mouse
LC50 Inhalation - Rat	> 2,5 mg/l (6h)

#### phenol, dodecyl-, branched (121158-58-5)

LD50 oral rat	2100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1620 - 2730
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<b>phenol, dodecyl-, branched (121158-58-5)</b>	
LD50 dermal rabbit	≈ 15000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
<b>Alkyl dithiophosphate</b>	
LD50 oral rat	11,3 g/kg
<b>Alkyl Amine Phosphate</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal	> 2000 mg/kg
<b>Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized, including distillates (petroleum), heavy paraffinic C10-C50 (68784-26-9)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 4000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
<b>2,6-Di-tert-butyl-p-cresol (128-37-0)</b>	
LD50 oral rat	> 2930 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
<b>ethane-1,2-diol (107-21-1)</b>	
pH	6 – 7,5
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
<b>ethane-1,2-diol (107-21-1)</b>	
pH	6 – 7,5
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)
<b>2,6-Di-tert-butyl-p-cresol (128-37-0)</b>	
NOAEL (chronic, oral, animal/male, 2 years)	25 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
<b>Alkyl dithiophosphate</b>	
NOAEL (oral, rat)	1000 mg/kg bodyweight
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
<b>ethane-1,2-diol (107-21-1)</b>	
STOT-repeated exposure	May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
<b>Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized, including distillates (petroleum), heavy paraffinic C10-C50 (68784-26-9)</b>	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (dermal, rat/rabbit, 90 days)	≈ 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

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Viscosity, kinematic	68 mm <sup>2</sup> /s at 40 °C, ASTM D 445
phenol, dodecyl-, branched (121158-58-5)	
Viscosity, kinematic	450 mm <sup>2</sup> /s

### 11.2. Information on other hazards

#### Endocrine disrupting properties

Component	
phenol, dodecyl-, branched (121158-58-5)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)

#### Other information

Other information : Toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the toxicology of similar products, Likely route of exposure: ingestion, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
Ecology - water : This product floats on water and may affect the oxygen-balance in the water.  
Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Highly refined mineral oil (C15 -C50)	
EC50 other aquatic organisms 1	1,2 mg/l
ethane-1,2-diol (107-21-1)	
LC50 fish 1	> 72860 mg/l Test organisms (species): Pimephales promelas
EC50 Daphnia 1	> 100 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'
NOEC chronic fish	15380 mg/l Pimephales promelas
NOEC chronic crustacea	8590 mg/l daphnia
phenol, dodecyl-, branched (121158-58-5)	
LC50 fish 1	40 mg/l Pimephales promelas
EC50 Daphnia 1	0,037 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0,36 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	0,012 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0,0037 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Alkyl dithiophosphate	
LC50 fish 1	> 100 mg/l
EC50 Daphnia 1	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l

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<b>Alkyl Amine Phosphate</b>	
LC50 fish 1	5,5 mg/l
EC50 Daphnia 1	0,315 mg/l
EC50 72h - Algae [1]	0,58 mg/l
NOEC (chronic)	> 32,6 mg/l

<b>Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized, including distillates (petroleum), heavy paraffinic C10-C50 (68784-26-9)</b>	
LC50 fish 1	1000 mg/l
EC50 Daphnia 1	1000 mg/l

<b>2,6-Di-tert-butyl-p-cresol (128-37-0)</b>	
LC50 fish 1	0,57 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 Daphnia 1	0,48 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 0,4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0,023 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0,053 mg/l Fish
NOEC chronic crustacea	0,069 mg/l Daphnia magna (Water flea)

## 12.2. Persistence and degradability

<b>Eurol Lube 68-S</b>	
Persistence and degradability	Not readily biodegradable.

<b>Highly refined mineral oil (C15 -C50)</b>	
Persistence and degradability	Rapidly degradable

<b>ethane-1,2-diol (107-21-1)</b>	
Persistence and degradability	Readily biodegradable in water, easily degradable in the soil.
Biochemical oxygen demand (BOD)	0,47 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1,24 g O <sub>2</sub> /g substance
ThOD	1,29 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0,36

<b>phenol, dodecyl-, branched (121158-58-5)</b>	
Persistence and degradability	Not readily biodegradable in water.
Biodegradation	25 % OECD TG 301 B

<b>Alkyl dithiophosphate</b>	
Persistence and degradability	Rapidly degradable

<b>Alkyl Amine Phosphate</b>	
Persistence and degradability	Rapidly degradable

<b>Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized, including distillates (petroleum), heavy paraffinic C10-C50 (68784-26-9)</b>	
Persistence and degradability	Rapidly degradable

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### Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized, including distillates (petroleum), heavy paraffinic C10-C50 (68784-26-9)

BOD (% of ThOD)	13,4 % ThOD
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### 2,6-Di-tert-butyl-p-cresol (128-37-0)

Persistence and degradability	Rapidly degradable
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Biodegradation	4,5 % (OECD 301C method)
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## 12.3. Bioaccumulative potential

### Eurol Lube 68-S

Bioaccumulative potential	This product is not expected to bioaccumulate through food chains in the environment.
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### ethane-1,2-diol (107-21-1)

Log Pow	-1,36
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Bioaccumulative potential	No bioaccumulation.
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### phenol, dodecyl-, branched (121158-58-5)

Bioconcentration factor (BCF REACH)	794,33
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Log Kow	7,14
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### Alkyl Amine Phosphate

Log Pow	2,47
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### Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized, including distillates (petroleum), heavy paraffinic C10-C50 (68784-26-9)

Bioconcentration factor (BCF REACH)	2,2
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Log Pow	9,5
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### 2,6-Di-tert-butyl-p-cresol (128-37-0)

Bioconcentration factor (BCF REACH)	> 2000 Cyprinus carpio (Common carp)
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Log Pow	5,1
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## 12.4. Mobility in soil

### Eurol Lube 68-S

Ecology - soil	Not miscible with water. Spillages may penetrate the soil causing ground water contamination. This product floats on water and may affect the oxygen-balance in the water.
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### ethane-1,2-diol (107-21-1)

Surface tension	0,048 N/m (20 °C)
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### phenol, dodecyl-, branched (121158-58-5)

Surface tension	42,2 mN/m
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Log Koc	4,4 – 4,67
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### 2,6-Di-tert-butyl-p-cresol (128-37-0)

Log Koc	3,9 – 4,2
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### 12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	phenol, dodecyl-, branched (121158-58-5)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	phenol, dodecyl-, branched (121158-58-5)

### 12.6. Endocrine disrupting properties

Component	
phenol, dodecyl-, branched (121158-58-5)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Waste disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.
Ecology - waste materials	: Every mixture with foreign substances such as solvents, brake- and cooling liquids is forbidden. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly. When not empty dispose of this container at hazardous or special waste collection point.
European List of Waste (LoW, EC 2000/532)	: 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN
<b>14.1. UN number or ID number</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

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### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

##### EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(b)	Distillates (petroleum), hydrotreated heavy paraffinic ; ethane-1,2-diol ; phenol, dodecyl-, branched ; Alkyl dithiophosphate ; Alkyl Amine Phosphate ; White mineral oil (petroleum)	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
3(c)	Eurol Lube 68-S ; phenol, dodecyl-, branched ; Alkyl dithiophosphate ; Alkyl Amine Phosphate ; Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligomerization, carbonates, calcium salts, overbased, sulfurized, including distillates (petroleum), heavy paraffinic C10-C50	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

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations  $\geq 0.1\%$  or SCL: Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) (EC 310-154-3, CAS 121158-58-5)

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

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### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### VOC Directive (2004/42)

VOC content : 0 %

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

A chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
1.1	Name	<b>Added</b>
15.1	REACH Annex XVII	<b>Modified</b>
16	Abbreviations and acronyms	<b>Modified</b>

Abbreviations and acronyms:	
ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard

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Abbreviations and acronyms:	
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

### Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Supplier's safety documents. ECHA (European Chemicals Agency).

### Training advice

: Normal use of this product shall imply use in accordance with the instructions on the packaging.

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### Other information

: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

### Full text of H- and EUH-statements:

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
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H360F	May damage fertility.
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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains Alkyl dithiophosphate. May produce an allergic reaction.

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Aquatic Chronic 3	H412	Calculation method
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Safety Data Sheet (SDS), EU

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.