

**Trade name:** masteroil Diesel Bakterienschutz**Product no.:** 1973**Current version :** 4.0.0, issued: 11.06.2024**Replaced version:** 3.0.1, issued: 22.05.2024**Region:** IE**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

**masteroil Diesel Bakterienschutz**

UFI:

1AC8-J1J4-E00X-FK4Y

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

Additive for mineral oil products

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**Masteroil GmbH  
Stockholmer Allee 30 b  
44269 Dortmund

Telephone no. 0231 444 247 64

e-mail info@masteroil.com

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

+353 1 809 2166 (National Poisons Information Centre)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Acute Tox. 4; H302

Acute Tox. 4; H332

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

Eye Dam. 1; H318

Skin Irrit. 2; H315

STOT SE 3; H335

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS05



GHS07



GHS09

**Signal word**

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Danger

**Hazardous component(s) to be indicated on label:**2-ethylhexyl nitrate  
2-ethylhexan-1-ol  
(ethylenedioxy)dimethanol**Hazard statement(s)**

H302+H332	Harmful if swallowed or if inhaled
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

**Hazard statements (EU)**

EUH044	Risk of explosion if heated under confinement.
EUH208	Contains N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine, alpha,alpha'-propylenedinitrilodi-o-cresol. May produce an allergic reaction.

**Precautionary statement(s)**

P273	Avoid release to the environment.
P280	Wear protective gloves/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.
P310	Immediately call a POISON CENTER/doctor.
P391	Collect spillage.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.
P404	Store in a closed container.

**UFI:**

1AC8-J1J4-E00X-FK4Y

**2.3 Other hazards**PBT assessment  
No data available.vPvB assessment  
No data available.**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	<b>2-ethylhexyl nitrate</b>		
	27247-96-7	Acute Tox. 4; H302	>= 25,00 - < 50,00 wt%
	248-363-6	Acute Tox. 4; H312	
	-	Acute Tox. 4; H332	
	01-2119539586-27	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH044 EUH066	
2	<b>2-ethylhexan-1-ol</b>		
	104-76-7	Eye Irrit. 2; H319	>= 25,00 - < 50,00 wt%
	203-234-3	Skin Irrit. 2; H315	
	-	STOT SE 3; H335	
	01-2119487289-20	Acute Tox. 4; H332	

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3	<b>2,6-di-tert-butylphenol</b>			
	128-39-2 204-884-0 - 01-2119490822-33	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Irrit. 2; H315	>= 5,00 - < 10,00	wt%
4	<b>(ethylenedioxy)dimethanol</b>			
	3586-55-8 222-720-6 - -	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Irrit. 2; H315	< 5,00	wt%
5	<b>hydrocarbons, C10, aromatics, &lt;1% naphthalene</b>			
	- 918-811-1 - 01-2119463583-34	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 EUH066 STOT SE 3; H336	< 2,50	wt%
6	<b>N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine</b>			
	91273-04-0 401-280-0 613-072-00-9 01-2119930450-49	Aquatic Chronic 2; H411 Skin Corr. 1B; H314 Skin Sens. 1; H317 Eye Dam. 1; H318	< 0,50	wt%
7	<b>alpha, alpha'-propylenedinitrildi-o-cresol</b>			
	94-91-7 202-374-2 - 01-2119958970-25	Acute Tox. 4; H302 Aquatic Chronic 3; H412 Skin Sens. 1; H317 Repr. 1B; H360FD	< 0,50	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

**Acute toxicity estimate (ATE) values**

No	oral	dermal	inhalative
7	1350 mg/kg bodyweight		

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

**After inhalation**

Ensure supply of fresh air.

**After skin contact**

When in contact with the skin, clean with soap and water.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

**After ingestion**

Rinse the mouth thoroughly with water. Call a doctor immediately. Never give anything by mouth to an unconscious person. If individual is drowsy or unconscious, place in recovery position (on left side, with head down).

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

No data available.

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

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media

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Water spray jet; Foam; Extinguishing powder; Carbon dioxide

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO)**5.3 Advice for firefighters**

Wear protective clothing. Use self-contained breathing apparatus. Cool endangered containers with water spray jet.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

**6.3 Methods and material for containment and cleaning up**

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When collected, handle material as described under the section heading "Disposal considerations".

**6.4 Reference to other sections**

No data available.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Provide eye wash fountain in work area.

**Advice on protection against fire and explosion**

Keep away from sources of heat and ignition.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed in a cool, well-ventilated place.

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

**Incompatible products**

Do not store together with: oxidizing agents

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection**



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## 8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	2-ethylhexan-1-ol	104-76-7	203-234-3
	2017/164/EU		
	2-ethylhexan-1-ol		
	WEL long-term (8-hr TWA reference period)	5,4 mg/m <sup>3</sup>	1 ppm
	<b>List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</b>		
	2-Ethylhexan-1-ol		
	WEL long-term (8-hr TWA reference period)	5,4 mg/m <sup>3</sup>	1 ppm
	Comments	IOELV	

DNEL, DMEL and PNEC values

## DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	2-ethylhexyl nitrate			27247-96-7 248-363-6	
	dermal	Long term (chronic)	systemic	1	mg/kg/day
	dermal	Long term (chronic)	local	44	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0.35	mg/m <sup>3</sup>
2	2-ethylhexan-1-ol			104-76-7 203-234-3	
	dermal	Long term (chronic)	systemic	23	mg/kg/day
	inhalative	Short term (acut)	local	53,2	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	12,8	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	53,2	mg/m <sup>3</sup>
3	2,6-di-tert-butylphenol			128-39-2 204-884-0	
	dermal	Long term (chronic)	systemic	11,25	mg/kg/day
	inhalative	Long term (chronic)	systemic	70,61	mg/m <sup>3</sup>
4	hydrocarbons, C10, aromatics, <1% naphthalene			- 918-811-1	
	dermal	Long term (chronic)	systemic	12,5	mg/kg/day
	inhalative	Long term (chronic)	systemic	151	mg/m <sup>3</sup>
5	alpha,alpha'-propylenedinitrilodi-o-cresol			94-91-7 202-374-2	
	dermal	Long term (chronic)	systemic	0,88	mg/kg/day
	inhalative	Long term (chronic)	systemic	3,11	mg/m <sup>3</sup>

## DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	2-ethylhexyl nitrate			27247-96-7 248-363-6	
	oral	Long term (chronic)	systemic	25	µg/kg/day
	dermal	Long term (chronic)	systemic	0.52	mg/kg/day
	dermal	Long term (chronic)	local	22	µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	87	µg/m <sup>3</sup>
2	2-ethylhexan-1-ol			104-76-7 203-234-3	
	oral	Long term (chronic)	systemic	1,1	mg/kg/day
	dermal	Long term (chronic)	systemic	11,4	mg/kg/day
	inhalative	Long term (chronic)	systemic	2,3	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	26,6	mg/m <sup>3</sup>



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3	inhalative	Long term (chronic)	local	26,6	mg/m <sup>3</sup>
	<b>2,6-di-tert-butylphenol</b>			<b>128-39-2</b> <b>204-884-0</b>	
	oral	Long term (chronic)	systemic	6,75	mg/kg/day
	dermal	Long term (chronic)	systemic	6,75	mg/kg bw/day
4	inhalative	Long term (chronic)	systemic	20,90	mg/m <sup>3</sup>
	<b>hydrocarbons, C10, aromatics, &lt;1% naphthalene</b>			<b>-</b> <b>918-811-1</b>	
	oral	Long term (chronic)	systemic	7,5	mg/kg/day
	dermal	Long term (chronic)	systemic	7,5	mg/kg/day
5	inhalative	Long term (chronic)	systemic	32	mg/m <sup>3</sup>
	<b>alpha,alpha'-propylenedinitrilodi-o-cresol</b>			<b>94-91-7</b> <b>202-374-2</b>	
	oral	Long term (chronic)	systemic	0,22	mg/kg/day
	dermal	Long term (chronic)	systemic	0,44	mg/kg/day
	inhalative	Long term (chronic)	systemic	0,76	mg/m <sup>3</sup>

### PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	<b>2-ethylhexyl nitrate</b>		<b>27247-96-7</b> <b>248-363-6</b>
	water	fresh water	0,83 µg/L
	water	marine water	0,083 µg/L
	water	fresh water sediment	0,47 mg/kg dry weight
	water	marine water sediment	0,047 µg/kg dry weight
	soil	-	95,5 µg/kg dry weight
	sewage treatment plant	-	10 mg/L
2	<b>2-ethylhexan-1-ol</b>		<b>104-76-7</b> <b>203-234-3</b>
	water	fresh water	0,017 mg/L
	water	marine water	0,002 mg/L
	water	Aqua intermittent	0,17 mg/L
	water	fresh water sediment	0,284 mg/kg
	with reference to: dry weight		
	water	marine water sediment	0,028 mg/kg
	with reference to: dry weight		
	soil	-	0,047 mg/kg
	with reference to: dry weight		
sewage treatment plant	-	10 mg/L	
secondary poisoning	-	55 mg/kg	
with reference to: food			
3	<b>2,6-di-tert-butylphenol</b>		<b>128-39-2</b> <b>204-884-0</b>
	water	fresh water	0,001 mg/L
	water	Aqua intermittent	0,004 mg/L
	water	fresh water sediment	0,317 mg/kg dry weight
	water	marine water	0 mg/L
	water	marine water sediment	0,032 mg/kg dry weight
	soil	-	0,697 mg/kg dry weight
	sewage treatment plant	-	10 mg/L
	secondary poisoning	-	60 mg/kg food

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4	<b>alpha,alpha'-propylenedinitrildi-o-cresol</b>		<b>94-91-7</b>	
			<b>202-374-2</b>	
	water	fresh water	1,12	µg/L
	water	fresh water sediment	56,8	mg/kg dry weight
	water	marine water	0,112	µg/L
	water	marine water sediment	5,68	mg/kg dry weight
	soil	-	11,4	mg/kg dry weight
	sewage treatment plant	-	0,5	mg/L

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

#### Other

Normal chemical work clothing.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State of aggregation</b>	
liquid	
<b>Form</b>	
liquid	
<b>Colour</b>	
Various, depending on coloration	
<b>Odour</b>	
No data available	
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
Value	> 160 °C
<b>Melting point/freezing point</b>	
No data available	

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<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
Value	>	61	°C
<b>Ignition temperature</b>			
No data available			
<b>Flammability</b>			
No data available			
<b>Lower explosion limit</b>			
No data available			
<b>Upper explosion limit</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
No data available			
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	2-ethylhexyl nitrate	27247-96-7	248-363-6
log Pow		5,24	
Method	OECD 117		
Source	ECHA		
2	2-ethylhexan-1-ol	104-76-7	203-234-3
log Pow		2,9	
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		
<b>Kinematic viscosity</b>			
Value	<	20,5	mm <sup>2</sup> /s
Reference temperature		40	°C
Type	kinematic		
<b>Particle characteristics</b>			
No data available			

**9.2 Other information**

<b>Other information</b>
No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).



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Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

None, if handled according to intended use.

**10.5 Incompatible materials**

Oxidizing agents

**10.6 Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	masteroil Diesel Bakterienschutz
ATE (Mixture)	1111,36 mg/kg
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	2-ethylhexan-1-ol	104-76-7	203-234-3
LD50		2047	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	2,6-di-tert-butylphenol	128-39-2	204-884-0
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	alpha,alpha'-propylenedinitrilodi-o-cresol	94-91-7	202-374-2
LD50	appr.	1350	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	masteroil Diesel Bakterienschutz
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	2-ethylhexan-1-ol	104-76-7	203-234-3
LD50	>	3000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		



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<b>2</b>	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

<b>3</b>	<b>alpha,alpha'-propylenedinitrildi-o-cresol</b>	<b>94-91-7</b>	<b>202-374-2</b>
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

<b>Acute inhalational toxicity (result of the ATE calculation for the mixture)</b>	
No	Product Name
<b>1</b>	<b>masteroil Diesel Bakterienschutz</b>
ATE (Mixture)	14,2587 mg/l
Route of exposure / physical form	Vapour
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

<b>Acute inhalational toxicity</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-ethylhexan-1-ol</b>	<b>104-76-7</b>	<b>203-234-3</b>
LC50	1,1	- 4,3	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		

<b>Skin corrosion/irritation</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-ethylhexyl nitrate</b>	<b>27247-96-7</b>	<b>248-363-6</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		

<b>2</b>	<b>2-ethylhexan-1-ol</b>	<b>104-76-7</b>	<b>203-234-3</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		

<b>3</b>	<b>2,6-di-tert-butylphenol</b>	<b>128-39-2</b>	<b>204-884-0</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		

<b>4</b>	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		

<b>5</b>	<b>alpha,alpha'-propylenedinitrildi-o-cresol</b>	<b>94-91-7</b>	<b>202-374-2</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		

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Evaluation/classification	Based on available data, the classification criteria are not met.
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Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	2-ethylhexyl nitrate	27247-96-7	248-363-6
Method		OECD 437	
Source		ECHA	
Evaluation		non-irritant	
2	2-ethylhexan-1-ol	104-76-7	203-234-3
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		Irritating to eyes	
Evaluation/classification		Based on available data, the classification criteria are met.	
3	2,6-di-tert-butylphenol	128-39-2	204-884-0
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	
4	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		Irreversible effects on the eye	
5	alpha,alpha'-propylenedinitrilodi-o-cresol	94-91-7	202-374-2
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	2-ethylhexyl nitrate	27247-96-7	248-363-6
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
2	2,6-di-tert-butylphenol	128-39-2	204-884-0
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
4	alpha,alpha'-propylenedinitrilodi-o-cresol	94-91-7	202-374-2
Route of exposure		Skin	
Species		guinea pig	
Source		ECHA	
Evaluation		sensitizing	
Evaluation/classification		Based on available data, the classification criteria are met.	

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<b>Germ cell mutagenicity</b>			
No	Substance name	CAS no.	EC no.
1	2-ethylhexan-1-ol	104-76-7	203-234-3
Type of examination		in vitro gene mutation study in bacteria	
Species		Salmonella typh. TA98, TA100, TA1535, TA1537, TA1538	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	2,6-di-tert-butylphenol	128-39-2	204-884-0
Type of examination		in vitro gene mutation study in bacteria	
Species		S. typhimurium TA 1535, TA 1537, TA 98 and TA 100	
Source		ECHA	
Evaluation/classification		negative	
3	hydrocarbons, C10, aromatics, <1% naphthalene	-	918-811-1
Type of examination		in vitro gene mutation study in bacteria	
Species		S. typhimurium TA 1535, TA 1537, TA 98 and TA 100	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are met.	
4	alpha,alpha'-propylenedinitrilodi-o-cresol	94-91-7	202-374-2
Type of examination		Bacterial Reverse Mutation Test	
Species		S. typhimurium TA 1535, TA 1537, TA 98 and TA 100	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>Reproduction toxicity</b>			
No	Substance name	CAS no.	EC no.
1	2-ethylhexyl nitrate	27247-96-7	248-363-6
Species		rat	
Method		OECD 421	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	2,6-di-tert-butylphenol	128-39-2	204-884-0
Species		rat	
Method		OECD 421	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	alpha,alpha'-propylenedinitrilodi-o-cresol	94-91-7	202-374-2
Route of exposure		oral	
Species		rat	
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are met.	
<b>Carcinogenicity</b>			
No	Substance name	CAS no.	EC no.
1	2,6-di-tert-butylphenol	128-39-2	204-884-0
Species		Salmonella typhimurium	
Method		Ames-Test	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>STOT - single exposure</b>			
No data available			
<b>STOT - repeated exposure</b>			
No	Substance name	CAS no.	EC no.
1	2-ethylhexan-1-ol	104-76-7	203-234-3
Route of exposure		oral	

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NOAEL	250	mg/kg bw/d
Species	rat	
Method	OECD 408	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
<b>2</b>	<b>2,6-di-tert-butylphenol</b>	<b>128-39-2</b> <b>204-884-0</b>
Route of exposure	oral	
NOAEL	100	mg/kg bw/d
Duration of exposure	28	day(s)
Species	rat	
Method	OECD-Guideline no. 407	
Source	ECHA	
Evaluation/classification	On the basis of the available information, the classification criteria are not met.	
<b>3</b>	<b>alpha,alpha'-propylenedinitrildi-o-cresol</b>	<b>94-91-7</b> <b>202-374-2</b>
Route of exposure	oral	
NOAEL	>= 250	mg/kg bw/d
Method	OECD 422	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	

**Aspiration hazard**

No data available

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
1	2-ethylhexyl nitrate	27247-96-7	248-363-6
LC50		2	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Source	OECD 203		
<b>2</b>	<b>2-ethylhexan-1-ol</b>	<b>104-76-7</b>	<b>203-234-3</b>
LC50		17,1	mg/l
Duration of exposure		96	h
Species	Leuciscus idus melanotus		
Method	EU C.1		
Source	ECHA		
<b>3</b>	<b>2,6-di-tert-butylphenol</b>	<b>128-39-2</b>	<b>204-884-0</b>
LC50		1,4	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 204		
Source	ECHA		
<b>4</b>	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>
LC50		71	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		

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<b>5</b>	<b>hydrocarbons, C10, aromatics, &lt;1% naphthalene</b>	-	<b>918-811-1</b>
LL50	>=	2	- 5
Duration of exposure			96
Species	Oncorhynchus mykiss		
with reference to	EG 919-284-0		
Method	OECD 203		
Source	ECHA		
<b>6</b>	<b>alpha,alpha'-propylenedinitrilodi-o-cresol</b>	<b>94-91-7</b>	<b>202-374-2</b>
LC50	appr.		46
Duration of exposure			96
Species	Leuciscus idus		
Method	DIN 38412		
Source	ECHA		
<b>Toxicity to fish (chronic)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>alpha,alpha'-propylenedinitrilodi-o-cresol</b>	<b>94-91-7</b>	<b>202-374-2</b>
NOEC			21,5
Duration of exposure			96
Species	Leuciscus idus		
Source	ECHA		
<b>Toxicity to Daphnia (acute)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>2-ethylhexyl nitrate</b>	<b>27247-96-7</b>	<b>248-363-6</b>
EC50			0,83
Duration of exposure			48
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>2</b>	<b>2-ethylhexan-1-ol</b>	<b>104-76-7</b>	<b>203-234-3</b>
EC50			39
Duration of exposure			48
Species	Daphnia magna		
Method	EU C.2		
Source	ECHA		
<b>3</b>	<b>2,6-di-tert-butylphenol</b>	<b>128-39-2</b>	<b>204-884-0</b>
EC50			0,45
Duration of exposure			48
Species	Daphnia magna		
Source	ECHA		
<b>4</b>	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>
EC50			28
Duration of exposure			48
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>5</b>	<b>hydrocarbons, C10, aromatics, &lt;1% naphthalene</b>	-	<b>918-811-1</b>
EL50	>=	3	- 10
Duration of exposure			48
Species	Daphnia magna		
with reference to	EG 919-284-0		
Method	OECD 202		
Source	ECHA		
<b>6</b>	<b>alpha,alpha'-propylenedinitrilodi-o-cresol</b>	<b>94-91-7</b>	<b>202-374-2</b>
EC50			3,162
Duration of exposure			48
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

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<b>Toxicity to Daphnia (chronic)</b>			
No	Substance name	CAS no.	EC no.
1	2-ethylhexyl nitrate	27247-96-7	248-363-6
EC50		0,83	mg/l
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
Evaluation/classification	The classification criteria are met based on the available data. (LC50 < 1 mg/l and log Kow >= 4)		
2	2,6-di-tert-butylphenol	128-39-2	204-884-0
NOEC		0,035	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
3	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
NOEC		8	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
4	alpha,alpha'-propylenedinitrildi-o-cresol	94-91-7	202-374-2
NOEC		1,77	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

<b>Toxicity to algae (acute)</b>			
No	Substance name	CAS no.	EC no.
1	2-ethylhexyl nitrate	27247-96-7	248-363-6
EC50	>	2,53	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
2	2-ethylhexan-1-ol	104-76-7	203-234-3
EC50		11,5	mg/l
Duration of exposure		72	h
Species	Scenedesmus subspicatus		
Method	EU C.3		
Source	ECHA		
3	2,6-di-tert-butylphenol	128-39-2	204-884-0
EC50		1,2	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	US-EPA		
Source	ECHA		
4	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
EC50		4,62	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
5	hydrocarbons, C10, aromatics, <1% naphthalene	-	918-811-1
EL50	>= 1	- 3	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		



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with reference to Method Source	EG 919-284-0 OECD 201 ECHA		
<b>6</b>	<b>alpha,alpha'-propylenedinitrilodi-o-cresol</b>	<b>94-91-7</b>	<b>202-374-2</b>
EC50		1,117	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2,6-di-tert-butylphenol</b>	<b>128-39-2</b>	<b>204-884-0</b>
NOEC		0,64	mg/l
Duration of exposure		96	h
Species	Pseudokirchneriella subcapitata		
Method	EPA OTS 797.1050		
Source	ECHA		

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2,6-di-tert-butylphenol</b>	<b>128-39-2</b>	<b>204-884-0</b>
EC50		>	1000
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		
<b>2</b>	<b>alpha,alpha'-propylenedinitrilodi-o-cresol</b>	<b>94-91-7</b>	<b>202-374-2</b>
EC20		18	mg/l
Duration of exposure		180	min
Species	activated sludge		
Method	OECD 209		
Source	ECHA		

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-ethylhexyl nitrate</b>	<b>27247-96-7</b>	<b>248-363-6</b>
Type	aerobic biodegradation		
Value		0	%
Duration		28	day(s)
Evaluation	not inherently biodegradable		
<b>2</b>	<b>2-ethylhexan-1-ol</b>	<b>104-76-7</b>	<b>203-234-3</b>
Type	aerobic biodegradation		
Value	79	- 99,9	%
Duration		2	week/s
Method	OECD 301 C		
Source	ECHA		
Evaluation	readily biodegradable		
<b>3</b>	<b>2,6-di-tert-butylphenol</b>	<b>128-39-2</b>	<b>204-884-0</b>
Type	aerobic biodegradation		
Value	12	- 24	%
Duration		28	day(s)
Method	OECD 302 C		
Source	ECHA		
Evaluation	not inherently biodegradable		
<b>4</b>	<b>(ethylenedioxy)dimethanol</b>	<b>3586-55-8</b>	<b>222-720-6</b>
Value		100	%
Duration		5	day(s)
Method	OECD 301 A		



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Source Evaluation	ECHA readily biodegradable		
<b>5</b>	<b>hydrocarbons, C10, aromatics, &lt;1% naphthalene</b>	<b>-</b>	<b>918-811-1</b>
Type	COD		
Value	49,56		%
Duration	28		day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	inherently biodegradable		
<b>6</b>	<b>alpha,alpha'-propylenedinitrildi-o-cresol</b>	<b>94-91-7</b>	<b>202-374-2</b>
Type	BOD		
Value	70	- 80	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	2-ethylhexyl nitrate	27247-96-7	248-363-6
log Pow		5,24	
Method	OECD 117		
Source	ECHA		
2	2-ethylhexan-1-ol	104-76-7	203-234-3
log Pow		2,9	
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	No data available.
vPvB assessment	No data available.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

Other information
Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.



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## SECTION 14: Transport information

### 14.1 UN number or ID number

<b>ADR/RID/ADN</b>	UN3082
<b>IMDG</b>	UN3082
<b>ICAO-TI / IATA</b>	UN3082

### 14.2 UN proper shipping name

<b>ADR/RID/ADN</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	2-ethylhexyl nitrate
<b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	2-ethylhexyl nitrate
<b>ICAO-TI / IATA</b>	Environmentally hazardous substance, liquid, n.o.s.
Technical name	2-ethylhexyl nitrate

### 14.3 Transport hazard class(es)

<b>ADR/RID/ADN - Class</b>	9
Label	9
Classification code	M6
Tunnel restriction code	-
Hazard identification no.	90
<b>IMDG - Class</b>	9
Label	9
<b>ICAO-TI / IATA - Class</b>	9
Label	9

### 14.4 Packing group

<b>ADR/RID/ADN</b>	III
<b>IMDG</b>	III
<b>ICAO-TI / IATA</b>	III

### 14.5 Environmental hazards

<b>ADR/RID/ADN</b>	Symbol "fish and tree"
<b>IMDG</b>	Symbol "fish and tree"
EmS	F-A, S-F
<b>ICAO-TI / IATA</b>	Symbol "fish and tree"

### 14.6 Special precautions for user

No data available.

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

Not relevant

## SECTION 15: Regulatory information

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

#### EU regulations

##### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

##### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

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The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	1,2,4-triazole	288-88-0	206-022-9	75
2	N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine	91273-04-0	401-280-0	75
3	naphthalene	91-20-3	202-049-5	75

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category: E1

**REGULATION (EU) No 528/2012 concerning the making available on the market and use of biocidal products**

(Ethyldioxy)dimethanol - (EDDM)

BAuA Registrierungsnr.: N-86305

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

EUH066	Repeated exposure may cause skin dryness or cracking.
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.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H360FD	May damage fertility. May damage the unborn child.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 778320

# EU safety data sheet



masteroil

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