

Trade name: masteroil Diesel Bakterienschutz

Product no.: 1973

Current version : 2.0.0, issued: 08.05.2024

Replaced version: 1.1.0, issued: 24.01.2022

Region: IE

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

1.1 Product identifier

Trade name

masteroil Diesel Bakterienschutz

UFI:

8MV5-V0SV-A00P-1G0K

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. 3; H331

Acute Tox. 4; H302

Acute Tox. 4; H312

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

Eye Dam. 1; H318

Skin Irrit. 2; H315

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



GHS06



GHS09

Signal word

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Danger

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

H302+H312	Harmful if swallowed or in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

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.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

UFI:

8MV5-V0SV-A00P-1G0K

2.3 Other hazardsPBT 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	2-ethylhexyl nitrate			
	27247-96-7 248-363-6 - 01-2119539586-27	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH044 EUH066	>= 70,00 - < 90,00	wt%
2	2-butoxyethanol			
	111-76-2 203-905-0 603-014-00-0 01-2119475108-36	Acute Tox. 4; H302 Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 10,00 - < 25,00	wt%
3	(ethylenedioxy)dimethanol			
	3586-55-8 222-720-6 - -	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Irrit. 2; H315	< 5,00	wt%
4	2-ethylhexan-1-ol			

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	104-76-7 203-234-3 - 01-2119487289-20	Eye Irrit. 2; H319 Skin Irrit. 2; H315 STOT SE 3; H335 Acute Tox. 4; H332	< 2,50	wt%
5	hydrocarbons, C10, aromatics, <1% naphthalene			
	- 918-811-1 - 01-2119463583-34	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 EUH066 STOT SE 3; H336	< 2,50	wt%

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

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
2	1200 mg/kg bodyweight		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Take medical treatment.

After skin contact

In case of contact with skin wash off immediately with soap and water. Seek medical attention.

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). Seek medical assistance.

After ingestion

Rinse the mouth thoroughly with water. 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). Call a doctor immediately and show label or packaging.

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

Water spray jet; Foam; Carbon dioxide; Extinguishing powder

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 monoxide (CO); Carbon dioxide (CO₂); Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

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

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). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. 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.

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.

Recommended storage temperature

Value < 50 °C

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container. Protect from heat and direct sunlight.

Incompatible products

Do not store together with: Acids; Alkalies; oxidizing agents

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
	2000/39/EC		
	2-Butoxyethanol		
	WEL short-term (15 min reference period)	246	mg/m ³ 50 ppm



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	WEL long-term (8-hr TWA reference period)	98	mg/m ³	20	ppm
	Skin resorption / sensibilisation	Skin			
List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)					
2-Butoxyethanol					
	WEL short-term (15 min reference period)	246	mg/m ³	50	ppm
	WEL long-term (8-hr TWA reference period)	98	mg/m ³	20	ppm
	Comments	Sk, IOELV			
2	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 ³	1	ppm
List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)					
2-Ethylhexan-1-ol					
	WEL long-term (8-hr TWA reference period)	5,4	mg/m ³	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 ²
	inhalative	Long term (chronic)	systemic	0.35 mg/m ³
2	2-butoxyethanol			111-76-2 203-905-0
	inhalative	Long term (chronic)	systemic	98,00 mg/m ³
	inhalative	Short term (acut)	systemic	1091,00 mg/m ³
	inhalative	Long term (chronic)	local	246,00 mg/m ³
3	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 ³
	inhalative	Long term (chronic)	systemic	12,8 mg/m ³
	inhalative	Long term (chronic)	local	53,2 mg/m ³
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 ³

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 ²
	inhalative	Long term (chronic)	systemic	87 µg/m ³
2	2-butoxyethanol			111-76-2 203-905-0
	oral	Long term (chronic)	systemic	6,30 mg/kg/day
	oral	Short term (acut)	systemic	26,70 mg/kg/day
	inhalative	Long term (chronic)	systemic	59,00 mg/m ³
	inhalative	Short term (acut)	systemic	426,00 mg/m ³
	inhalative	Long term (chronic)	local	147,00 mg/m ³

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3	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 ³
	inhalative	Short term (acut)	local	26,6 mg/m ³
	inhalative	Long term (chronic)	local	26,6 mg/m ³
4	hydrocarbons, C10, aromatics, <1% naphthalene			- 918-811-1
	oral	Long term (chronic)	systemic	7,5 mg/kg/day
	dermal	Long term (chronic)	systemic	7,5 mg/kg/day
	inhalative	Long term (chronic)	systemic	32 mg/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	2-ethylhexyl nitrate		27247-96-7 248-363-6
	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	2-butoxyethanol		111-76-2 203-905-0
	water	fresh water	8,80 mg/L
	water	marine water	0,88 mg/L
	water	fresh water sediment	34,60 mg/kg
	with reference to: dry weight		
	water	marine water sediment	3,46 mg/kg
	water	Aqua intermittent	26,4 mg/L
	soil	-	2,33 mg/kg dry weight
	sewage treatment plant	-	463,00 mg/L
	secondary poisoning	-	0,02 g/kg
3	2-ethylhexan-1-ol		104-76-7 203-234-3
	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		

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment

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Respiratory protection

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

Respirator EN14387-A

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.

Appropriate Material In case of short-term contact / splash protection: PVC

Material thickness 0,8 mm

Breakthrough time 4 h

Other

Normal chemical work clothing.

Appropriate Material cotton

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation	
liquid	
Form	
liquid	
Colour	
Various, depending on coloration	
Odour	
No data available	
pH value	
No data available	
Boiling point / boiling range	
Value	> 160 °C
Melting point/freezing point	
No data available	
Decomposition temperature	
No data available	
Flash point	
Value	> 61 °C
Ignition temperature	
No data available	
Flammability	
No data available	
Lower explosion limit	
No data available	

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Upper explosion limit			
No data available			
Vapour pressure			
No data available			
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
No data available			
Solubility			
No data available			
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-butoxyethanol	111-76-2	203-905-0
	log Pow		0,81
	Reference temperature		25 °C
	Source	ECHA	
3	2-ethylhexan-1-ol	104-76-7	203-234-3
	log Pow		2,9
	Reference temperature		25 °C
	Method	OECD 117	
	Source	ECHA	
Kinematic viscosity			
	Value	< 20,5	mm ² /s
	Reference temperature	40	°C
	Type	kinematic	
Particle characteristics			
No data available			

9.2 Other information

Other information
No data available.

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

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

None known.

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No hazardous decomposition products known.

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)	580,95 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-butoxyethanol	111-76-2	203-905-0
ATE		1200	mg/kg bodyweight
Species	rat		
Source	1272/2008/EC, Annex VI		
2	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.		

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	masteroil Diesel Bakterienschutz
ATE (Mixture)	1428,57 mg/kg
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
LD50	>	2000	mg/kg bodyweight
Species	guinea pig		
Method	OECD 402		
Source	ECHA		
2	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
3	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.		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	masteroil Diesel Bakterienschutz
ATE (Mixture)	9,4778 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.

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Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
ATE		3	mg/l
Duration of exposure		4	h
State of aggregation		Vapour	
Species		rat	
Source		1272/2008/EC, Annex VI	
2	2-ethylhexan-1-ol	104-76-7	203-234-3
LC50		1,1	- 4,3
Duration of exposure		4	mg/l
State of aggregation		Dust/mist	
Species		rat	
Method		OECD 403	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are met.	
Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	2-ethylhexyl nitrate	27247-96-7	248-363-6
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	
2	2-butoxyethanol	111-76-2	203-905-0
Duration of exposure		4	h
Species		rabbit	
Method		EU B.4	
Source		ECHA	
Evaluation		irritant	
3	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		irritant	
4	2-ethylhexan-1-ol	104-76-7	203-234-3
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		irritant	
Evaluation/classification		Based on available data, the classification criteria are met.	
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-butoxyethanol	111-76-2	203-905-0
Duration of exposure		24	h
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		Irritating to eyes	
3	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		Irreversible effects on the eye	

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4	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.		

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-butoxyethanol	111-76-2	203-905-0
Route of exposure		Skin	
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
3	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
Route of exposure		Skin	
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	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.	
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.	

Reproduction toxicity			
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.	

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Species		rat	
Method		OECD 451	

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Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

STOT - single exposure
No data available

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	2-ethylhexan-1-ol	104-76-7	203-234-3
Route of exposure		oral	
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.	

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**

Toxicity to fish (acute)			
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	
2	2-butoxyethanol	111-76-2	203-905-0
LC50		1474	mg/l
Duration of exposure		96	h
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		ECHA	
3	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
LC50		71	mg/l
Duration of exposure		96	h
Species		Danio rerio	
Method		OECD 203	
Source		ECHA	
4	2-ethylhexan-1-ol	104-76-7	203-234-3
LC50		17,1	mg/l
Duration of exposure		96	h
Species		Leuciscus idus melanotus	
Method		EU C.1	
Source		ECHA	
5	hydrocarbons, C10, aromatics, <1% naphthalene	-	918-811-1
LL50		>= 2	mg/l
Duration of exposure		5	h
		96	

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Species with reference to Method Source	Oncorhynchus mykiss EG 919-284-0 OECD 203 ECHA
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Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
NOEC	>	100	mg/l
Duration of exposure		21	day(s)
Species	Danio rerio		
Method	OECD 204		
Source	ECHA		

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	2-ethylhexyl nitrate	27247-96-7	248-363-6
EC50		0,83	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	2-butoxyethanol	111-76-2	203-905-0
EC50		1550	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
3	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
EC50		28	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
4	2-ethylhexan-1-ol	104-76-7	203-234-3
EC50		39	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EU C.2		
Source	ECHA		
5	hydrocarbons, C10, aromatics, <1% naphthalene	-	918-811-1
EL50	>= 3	- 10	mg/l
Duration of exposure		48	h
Species with reference to Method Source	Daphnia magna EG 919-284-0 OECD 202 ECHA		

Toxicity to Daphnia (chronic)			
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-butoxyethanol	111-76-2	203-905-0
NOEC		100	mg/l
Duration of exposure		21	day(s)

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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

Toxicity to algae (acute)			
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-butoxyethanol	111-76-2	203-905-0
EC50		911	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
3	(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		
4	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		
5	hydrocarbons, C10, aromatics, <1% naphthalene	-	918-811-1
EL50	>= 1	- 3	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
with reference to	EG 919-284-0		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity	
No data available	

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	2-ethylhexyl nitrate	27247-96-7	248-363-6
Type	aerobic biodegradation		
Value		0	%
Duration		28	day(s)
Evaluation	not inherently biodegradable		
2	2-butoxyethanol	111-76-2	203-905-0
Type	aerobic biodegradation		

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Value	90,4	%
Duration	28	day(s)
Method	OECD 301 B	
Source	ECHA	
Evaluation	readily biodegradable	
3	(ethylenedioxy)dimethanol	3586-55-8 222-720-6
Value	100	%
Duration	5	day(s)
Method	OECD 301 A	
Source	ECHA	
Evaluation	readily biodegradable	
4	2-ethylhexan-1-ol	104-76-7 203-234-3
Type	aerobic biodegradation	
Value	79	- 99,9 %
Duration	2	week/s
Method	OECD 301 C	
Source	ECHA	
Evaluation	readily biodegradable	
5	hydrocarbons, C10, aromatics, <1% naphthalene	- 918-811-1
Type	COD	
Value	49,56	%
Duration	28	day(s)
Method	OECD 301 F	
Source	ECHA	
Evaluation	inherently 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-butoxyethanol	111-76-2	203-905-0
log Pow		0,81	
Reference temperature		25	°C
Source	ECHA		
3	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.

Trade name: masteroil Diesel Bakterienschutz**Product no.:** 1973**Current version :** 2.0.0, issued: 08.05.2024**Replaced version:** 1.1.0, issued: 24.01.2022**Region:** IE**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.

SECTION 14: Transport information**14.1 UN number or ID number**

ADR/RID/ADN	UN2810
IMDG	UN2810
ICAO-TI / IATA	UN2810

14.2 UN proper shipping name

ADR/RID/ADN	TOXIC LIQUID, ORGANIC, N.O.S.
Technical name	2-ethylhexyl nitrate 2-butoxyethanol
IMDG	TOXIC LIQUID, ORGANIC, N.O.S.
Technical name	2-ethylhexyl nitrate 2-butoxyethanol
ICAO-TI / IATA	Toxic liquid, organic, n.o.s.
Technical name	2-ethylhexyl nitrate 2-butoxyethanol

14.3 Transport hazard class(es)

ADR/RID/ADN - Class	6.1
Label	6.1
Classification code	T1
Tunnel restriction code	E
Hazard identification no.	60
IMDG - Class	6.1
Label	6.1
ICAO-TI / IATA - Class	6.1
Label	6.1

14.4 Packing group

ADR/RID/ADN	III
IMDG	III
ICAO-TI / IATA	III

14.5 Environmental hazards

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

**Trade name:** masteroil Diesel Bakterienschutz**Product no.:** 1973**Current version :** 2.0.0, issued: 08.05.2024**Replaced version:** 1.1.0, issued: 24.01.2022**Region:** IE

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.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

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	2-butoxyethanol	111-76-2	203-905-0	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, H2

If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

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

(Ethylendioxy)dimethanol - (EDDM)
BAuA Registrierungsnr.: N-86305

Other regulations

Observe employment restrictions for child bearing mothers and nursing mothers.
Observe employment restrictions for young people.

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)

EUH044	Risk of explosion if heated under confinement.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

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Region: IE

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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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