

**Trade name:** masteroil Diesel Bakterien Schutz**Product no.:** 1973**Current version :** 1.0.0, issued: 21.07.2021**Replaced version:** -, issued: -**Region:** IE**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

masteroil Diesel Bakterien Schutz

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. 4; H302

Acute Tox. 4; H312

Acute Tox. 4; H332

Aquatic Chronic 2; H411

Asp. Tox. 1; H304

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



GHS07



GHS08



GHS09



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Signal word

Danger

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

H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H411	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.
P331	Do NOT induce vomiting.
P391	Collect spillage.

UFI:

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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 Chronic 2; H411 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. 4; H312 Acute Tox. 4; H332 Eye Irrit. 2; H319 Skin Irrit. 2; H315	>= 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%

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4	2-ethylhexan-1-ol			
	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	1746 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

Do not induce vomiting - aspiration hazard. 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 dioxide (CO₂); 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.



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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. 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		



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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
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	
	dermal	Long term (chronic)	systemic	125,00	mg/kg/day
	dermal	Short term (acut)	systemic	89,00	mg/kg/day
	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	106,4	mg/m ³
	inhalative	Long term (chronic)	systemic	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



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	dermal	Long term (chronic)	systemic	75,00	mg/kg/day
	dermal	Short term (acut)	systemic	89,00	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
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	53,2	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	0,8 µg/L
	water	marine water	0,08 µg/L
	water	fresh water sediment	0,00074 mg/kg dry weight
	water	marine water sediment	0,00074 mg/kg dry weight
	soil	-	0,000191 mg/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	0,0017 mg/L
	water	Aqua intermittent	0,17 mg/L
	water	fresh water sediment	0,28 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		

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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, 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/Colour	
liquid	
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	

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Flammability			
No data available			
Lower explosion limit			
No data available			
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	
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.

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Heat, naked flames and other ignition sources.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

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 Bakterien Schutz
ATE (Mixture)	589,88 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
LD50		1746	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
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 Bakterien Schutz
ATE (Mixture)	1333,38 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.		

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Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	masteroil Diesel Bakterien Schutz
ATE (Mixture)	12,3051 mg/l
Route of exposure / physical from Method	Vapour Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	2-ethylhexan-1-ol	104-76-7	203-234-3
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.		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Duration of exposure		4	h
Species	rabbit		
Method	EU B.4		
Source	ECHA		
Evaluation	irritant		
2	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
3	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-butoxyethanol	111-76-2	203-905-0
Duration of exposure		24	h
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irritating to eyes		
2	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irreversible effects on the eye		
3	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.		

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Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
2	(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.	

Reproduction toxicity			
No data available			

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Species		rat	
Method		OECD 451	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure			
No data available			

STOT - repeated exposure			
No data available			

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	
Method		OECD 203	
Source		ECHA	



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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		
Source	ECHA		
5	hydrocarbons, C10, aromatics, <1% naphthalene	-	918-811-1
LL50	>= 2	- 5	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		

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	>	12,6	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		
Source	ECHA		
5	hydrocarbons, C10, aromatics, <1% naphthalene	-	918-811-1

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EL50	>= 3	- 10	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (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	Daphnia magna		
Method	OECD 211		
Source	ECHA		
2	(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		1,57	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
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	Desmodemus 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	Desmodemus subspicatus		
Source	ECHA		
5	hydrocarbons, C10, aromatics, <1% naphthalene	-	918-811-1
EL50	>= 1	- 3	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity	
No data available	

12.2 Persistence and degradability



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Biodegradability			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Type		aerobic biodegradation	
Value		90,4	%
Duration		28	day(s)
Method		OECD 301 B	
Source		ECHA	
Evaluation		readily biodegradable	
2	(ethylenedioxy)dimethanol	3586-55-8	222-720-6
Value		100	%
Duration		5	day(s)
Method		OECD 301 A	
Source		ECHA	
Evaluation		readily biodegradable	
3	2-ethylhexan-1-ol	104-76-7	203-234-3
Type		aerobic biodegradation	
Value		79	%
Duration		2	week/s
Method		OECD 301 C	
Source		ECHA	
Evaluation		readily biodegradable	
4	hydrocarbons, C10, aromatics, <1% naphthalene	-	918-811-1
Type		COD	
Value		49,56	%
Duration		28	day(s)
Method		OECD 301 F	
Source		ECHA	
Evaluation		not 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-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.

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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.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Class	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	2-ethylhexyl nitrate
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	2-ethylhexyl nitrate
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	2-ethylhexyl nitrate
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.



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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.

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
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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:	E2
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REGULATION (EU) No 528/2012 concerning the making available on the market and use of biocidal products

(Ethylenedioxy)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)

EUH044	Risk of explosion if heated under confinement.
EUH066	Repeated exposure may cause skin dryness or cracking.
H302	Harmful if swallowed.
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.

Creation of the safety data sheet

UMCO GmbH

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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.

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