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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 11.12.2020 / 0006

Replacing version dated / version: 18.06.2019 / 0005

Valid from: 11.12.2020 PDF print date: 15.06.2021 Marine Diesel Protect

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

1.1 Product identifier

Marine Diesel Protect

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

Biocide

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0

Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

SECTION 2: Hazards identification

H411-Toxic to aquatic life with long lasting effects.

2.1 Classification of the substance or mixture

2

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Acute Tox.	4	H332-Harmful if inhaled.
Acute Tox.	4	H302-Harmful if swallowed.
Skin Irrit.	2	H315-Causes skin irritation.
Eye Dam.	1	H318-Causes serious eye damage.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.

2.2 Label elements

Aquatic Chronic

Labeling according to Regulation (EC) 1272/2008 (CLP)



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Danger

H332-Harmful if inhaled. H302-Harmful if swallowed. H315-Causes skin irritation. H318-Causes serious eye damage. H317-May cause an allergic skin reaction. H304-May be fatal if swallowed and enters airways. H411-Toxic to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P261-Avoid breathing vapours or spray. P271-Use only outdoors or in a well-ventilated area. P273-Avoid release to the environment. P280-Wear protective gloves / eye protection / face protection.

P301+P310-IF SWALLOWED: Immediately call a POISON CENTER / doctor. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P315-Get immediate medical advice / attention. P331-Do NOT induce vomiting.

P405-Store locked up.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH044-Risk of explosion if heated under confinement.

2-Ethylhexylnitrate

1,2-benzisothiazol-3(2H)-one

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Methyl salicylate

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. **3.2 Mixtures**

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Registration number (REACH)	01-2119457273-39-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	918-481-9
CAS	
content %	40-50
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Asp. Tox. 1, H304

2-Ethylhexylnitrate	
Registration number (REACH)	01-2119539586-27-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	248-363-6
CAS	27247-96-7
content %	25-30



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Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Acute Tox. 4, H312
	Acute Tox. 4, H332
	Aguatic Chronic 2, H411

Methyl salicylate	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	204-317-7
CAS	119-36-8
content %	10-<20
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	STOT SE 3, H335

Ethanediol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119456816-28-XXXX
Index	603-027-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	203-473-3
CAS	107-21-1
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	STOT RE 2, H373 (kidneys) (oral)

2-Ethylhexanol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119487289-20-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	203-234-3
CAS	104-76-7
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Acute Tox. 4, H332
	STOT SE 3, H335

Alcohols, C16-18 and C18-unsatd., ethoxylated	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	68920-66-1
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Aquatic Chronic 2, H411

1,2-benzisothiazol-3(2H)-one	
Registration number (REACH)	
Index	613-088-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	220-120-9
CAS	2634-33-5
content %	3,2
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H302
	Skin Irrit. 2, H315
	Skin Sens. 1, H317
	Eye Dam. 1, H318
	Acute Tox. 2, H330
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 2 H411

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.



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If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here. Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Protect uninjured eye.

Follow-up examination by an ophthalmologist.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

Ingestion:

Nausea

Vomiting

Danger of aspiration.

Oedema of the lungs

Chemical pneumonitis (condition similar to pneumonia)

4.3 Indication of any immediate medical attention and special treatment needed

Gastric lavage (stomach washing) only under endotracheal intubation.

Subsequent observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Toxic gases

Danger of bursting (explosion) when heated

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep unprotected persons away.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

6.2 Environmental precautions

Resolve leaks if this possible without risk.

If leakage occurs, dam up.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Fill the absorbed material into lockable containers.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Under all circumstances prevent penetration into the soil.

Keep protected from direct sunlight and temperatures over 50°C.

Store in a well ventilated place.

Store in a dry place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 800 mg/m3

Chemical Name	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	Content %:40-50
WEL-TWA: 800 mg/m3	WEL-STEL:	
Monitoring procedures:	 Draeger - Hydrocarbons 0,1%/c (81 03 571) 	



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- Draeger - Hydrocarbons 2/a (81 03 581) - Compur - KITA-187 S (551 174)					
BMGV: Other information: (OEL acc. to RCP-method paragraphs 84-87, EH40)			RCP-method,		
	Ethanediol				Content %:1-<5
WEL-TWA: 10 mg/m3 (particulate)		WEL-STEL: 104 mg/m3 (vapo	our) (WEL), 40 ppm		

© Chemical Name	Ethanedioi		Content %:1-<5	
WEL-TWA: 10 mg/m3 (particulate),	52 mg/m3	WEL-STEL: 104 mg/m3 (vapour) (WEL), 40 ppm		
(vapour) (WEL), 20 ppm (52 mg/m3) (EU)		(104 mg/m3) (EU)		
Monitoring procedures:	-	Draeger - Ethylene Glycol 10 (5) (81 01 351)		
	=	Compur - KITA-232 SA (502 342)		
	-	- Compur - KITA-232 SB (550 267)		
	- NIOSH 5500 (ETHYLENE GLYCOL) - 1993			
- NIOSH 5523 (GLYCOLS) - 1996				
OSHA PV2024 (Ethylene glycol) - 1999 - EU project BC/CEN/ENTR/000/2002-16 cal			N/ENTR/000/2002-16 card	
	-	11-2 (2004)		
BMGV:		Other information: SI	k (particulate, vapour)	

Chemical Name	2-Ethylhexanol			Content %:1-<5
WEL-TWA: 1 ppm (5,4 mg/m3) (W	EL, EU)	WEL-STEL:		
Monitoring procedures:	-	Draeger - Alcohol 100/a (CH 29 70	1)	
BMGV:			Other information:	

Chemical Name Oil mist, mineral			Content %:
WEL-TWA: 5 mg/m3 (Mineral oil, excluding metal	WEL-STEL:		
working fluids, ACGIH)			
Monitoring procedures: -	Draeger - Oil Mist 1/a (67 33 031)		
BMGV:		Other information: -	

2-Ethylhexylnitrate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,8	μg/l	
	Environment - marine		PNEC	0,08	μg/l	
	Environment - sediment		PNEC	0,00074	mg/kg dw	
	Environment - soil		PNEC	0,00019	mg/kg dw	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,52	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,087	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,025	mg/kg bw/day	
Consumer	Human - dermal	Long term, local effects	DNEL	0,022	mg/cm2	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,35	mg/m3	
Workers / employees	Human - dermal	Long term, local effects	DNEL	0,044	mg/cm2	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	10	mg/l	
	Environment - marine		PNEC	1	mg/l	
	Environment - sediment		PNEC	20,9	mg/kg	
	Environment - soil		PNEC	1,53	mg/kg	
	Environment - sewage treatment plant		PNEC	199,5	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	10	mg/l	



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	Environment - sediment,		PNEC	37	mg/kg dry
	freshwater				weight
	Environment - sediment,		PNEC	3,7	mg/kg dry
	marine				weight
Consumer	Human - inhalation	Long term, local effects	DNEL	7	mg/m3
Consumer	Human - dermal	Long term, systemic	DNEL	53	mg/kg
		effects			
Workers / employees	Human - inhalation	Long term, local effects	DNEL	35	mg/m3
Workers / employees	Human - dermal	Long term, systemic	DNEL	106	mg/kg bw/d
		effects			

2-Ethylhexanol Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,017	mg/l	
	Environment - marine		PNEC	0,0017	mg/l	
	Environment - sporadic (intermittent) release		PNEC	0,17	mg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - sediment, freshwater		PNEC	0,28	mg/kg dw	
	Environment - sediment, marine		PNEC	0,028	mg/kg dw	
	Environment - soil		PNEC	0,047	mg/kg dw	
	Environment - oral (animal feed)		PNEC	55	mg/kg feed	
Consumer	Human - oral	Long term, systemic effects	DNEL	1,1	mg/kg body weight/day	
Consumer	Human - inhalation	Short term, local effects	DNEL	53,2	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	11,4	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,3	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	1,1	mg/kg bw/day	
Consumer	Human - inhalation	Long term, local effects	DNEL	26,6	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	12,8	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	23	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	53,2	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	53,2	mg/m3	
Workers / employees	Human - oral	Long term, systemic effects	DNEL	12,8	mg/m3	

Distillates (petroleum), hydrotreated heavy paraffinic									
Area of application	ication Exposure route /		Descriptor	Value	Unit	Note			
	Environmental								
	compartment								
	Environment - oral (animal		PNEC	9,33	mg/kg feed				
	feed)								
Consumer	Human - inhalation	Long term, local effects	DNEL	1,2	mg/m3				
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,6	mg/m3				

B WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE).



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(11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

If applicable

Protective Neoprene® / polychloroprene gloves (EN 374).

Protective nitrile gloves (EN 374).

Protective gloves made of fluorocarbon rubber (EN 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

> 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Filter A P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.



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The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid Colour: Brown

Odour: Characteristic
Odour threshold: Not determined

pH-value: Mixture is non-soluble (in water).

Melting point/freezing point:

Initial boiling point and boiling range:

Not determined

Not determined

Not determined

63 °C

Flash point: 63 °C Evaporation rate: Not determined Flammability (solid, gas): Not determined Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined Vapour density (air = 1): Not determined Density: 0,905 g/cm3 (20°C)

Bulk density: n.a.

Solubility(ies):

Water solubility:

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Not determined

Not determined

Not determined

Votation temperature:

Not determined

Viscosity:

<7 mm2/s (40°C)

Viscosity: <7 mm2/s (40°C)
Viscosity: <=20,5 mm2/s (40°C)
Explosive properties: Product is not explosive.

Oxidising properties: No

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Not determined

Not determined

Surface tension:

Not determined

Not determined

Not determined

Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

Risk of explosion if heated under confinement.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Heating, open flame, ignition sources

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).



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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	1208-1296,4	mg/kg			calculated value
Acute toxicity, by dermal route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by inhalation:	ATE	11,32	mg/l/4h			calculated value, Vapours
Acute toxicity, by inhalation:	ATE	3,95	mg/l/4h			calculated value, Aerosol, Mist
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Hydrocarbons, C10-C13, n-alka				•	T =	
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	Analogous
					Toxicity)	conclusion
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	Analogous
					Dermal Toxicity)	conclusion
Acute toxicity, by inhalation:	LC50	>4951	mg/m3/4h	Rat	OECD 403 (Acute	Analogous
					Inhalation Toxicity)	conclusion,
						Vapours
Skin corrosion/irritation:					OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosion)	conclusion
Serious eye damage/irritation:					OECD 405 (Acute Eye	Not irritant.
.,					Irritation/Corrosion)	Analogous
					,	conclusion
Respiratory or skin					OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	Analogous
constituent.					Constitution	conclusion
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative,
Com con matagornony.					Mammalian	Analogous
					Chromosome	conclusion
					Aberration Test)	CONTOIGNOT
Germ cell mutagenicity:					OECD 474 (Mammalian	Negative,
Germ cen matagemeny.					Erythrocyte	Analogous
					Micronucleus Test)	conclusion
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
Germ cen matagemeny.				typhimurium	Reverse Mutation Test)	INCGATIVE
Carcinogenicity:				typriimananan	OECD 453 (Combined	Negative,
Carcinogenicity.					Chronic	Analogous
					Toxicity/Carcinogenicity	conclusion
					Studies)	CONCIUSION
Reproductive toxicity:		+			OECD 414 (Prenatal	Negative,
reproductive toxicity.					Developmental Toxicity	Analogous
					Study)	conclusion
Specific target organ toxicity -					OECD 408 (Repeated	Negative,
repeated exposure (STOT-RE):					Dose 90-Day Oral	
repeated exposure (STOT-RE):						Analogous
					Toxicity Study in	conclusion
Assissting beauty		1			Rodents)	V
Aspiration hazard:						Yes



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Symptoms:			unconsciousness
			, headaches,
			dizziness,
			mucous
			membrane
			irritation
Other information:			Repeated
			exposure may
			cause skin
			dryness or
			cracking.

2-Ethylhexylnitrate		-		-		
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by dermal route:						Experiences on
						persons.,
						Harmful
Acute toxicity, by inhalation:						Experiences on
• •						persons.,
						Harmful
Acute toxicity, by inhalation:	LCLo	>4,6	mg/l/1h	Rat		Mist
Skin corrosion/irritation:		,		Rabbit	OECD 404 (Acute	Not irritant.
J					Dermal	Repeated
					Irritation/Corrosion)	exposure may
					auc. " Con Colon,	cause skin
						dryness or
						cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
Cerious eye damage/imation.				Rabbit	Irritation/Corrosion)	Notimiant
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact
sensitisation:				Ourica pig	Sensitisation)	140 (Skiii Contact
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
Cerm cen matagementy.				typhimurium	Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
Germ cen matagemony.				IVIOUSE	Mammalian Cell Gene	Negative
					Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
Germ cen mutagemony.					Mammalian	ivegative
					Chromosome	
Daniel de dies de de de de de	NOAEL	400			Aberration Test)	NI
Reproductive toxicity:	NOAEL	100	mg/kg		OECD 421	Negative
			bw/d		(Reproduction/Developm	
					ental Toxicity Screening	
<u> </u>				—	Test)	
Reproductive toxicity				Rat	OECD 414 (Prenatal	Analogous
(Developmental toxicity):					Developmental Toxicity	conclusion
					Study)	
Symptoms:						drying of the
						skin., may cause
						headaches and
						vertigo., nausea
						drop in blood
						pressure,
						diarrhoea,
						unconsciousnes
Specific target organ toxicity -	NOAEL	863	mg/m3	Rat	OECD 413 (Subchronic	Vapours,
repeated exposure (STOT-RE),			-		Inhalation Toxicity - 90-	Analogous
inhalat.:	1	1	1	1	Day Study)	conclusion

Ethanediol								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	LD50	1600	mg/kg	Human being				
Acute toxicity, by dermal route:	LD50	9530	mg/kg	Rabbit				
Acute toxicity, by dermal route:	LD50	>3500	mg/kg	Mouse				



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Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant
Respiratory or skin				Human being	(Patch-Test)	Negative
sensitisation:						
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:				Rat	in vivo	Negative
Reproductive toxicity:	NOAEL	1000	mg/kg bw/d	Rat		
Symptoms:						ataxia, breathing
						difficulties,
						unconsciousness
						, cramps, fatigue

2-Ethylhexanol Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2047	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	110100
Acute toxicity, by dermal route:	LD50	>3000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	2,7	mg/l/4h			Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)literature
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:	NOAEL	750	mg/kg bw/d	Mouse	OECD 451 (Carcinogenicity Studies)	Negative
Reproductive toxicity:	NOAEL	3000	ppm	Rat	OECD 416 (Two- generation Reproduction Toxicity Study)	Negative
Reproductive toxicity (Developmental toxicity):				Mouse	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Specific target organ toxicity - single exposure (STOT-SE):						Irritation of the respiratory tract, STOT SE 3, H335
Symptoms:						unconsciousnes, drop in blood pressure, vomiting, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea



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Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	200	mg/kg bw/d	Mouse		
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	125	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	0,6384	mg/l	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90- Day Study)	Vapours

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Analogous conclusion
Germ cell mutagenicity:				Rat	OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Aspiration hazard:						No

1,2-benzisothiazol-3(2H)-one Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1020	mg/kg	Rat		
Acute toxicity, by dermal route:	LC50	>2000	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	0,4	mg/l/4h	Rat		Aerosol
Skin corrosion/irritation:						Irritant
Serious eye damage/irritation:						Eye Dam. 1
Respiratory or skin				Guinea pig	OECD 406 (Skin	Skin Sens. 1
sensitisation:					Sensitisation)	
Respiratory or skin				Mouse	OECD 429 (Skin	Yes (skin
sensitisation:					Sensitisation - Local	contact)
					Lymph Node Assay)	

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Marine Diesel Protect							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.



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1000		1	T
12.2. Persistence and			The surfactant(s)
degradability:			contained in this
			mixture
			complies(comply)
			with the
			biodegradability
			criteria as laid
			down in
			Regulation (EC)
			No.648/2004 on
			detergents. Data
			to support this
			assertion are
			held at the
			disposal of the
			competent
			authorities of the
			Member States
			and will be made
			available to
			them, at their
			direct request or
			at the request of
			a detergent
			manufacturer.
12.3. Bioaccumulative			n.d.a.
potential:			
12.4. Mobility in soil:			n.d.a.
12.5. Results of PBT			n.d.a.
and vPvB assessment			
12.6. Other adverse			n.d.a.
effects:			
Other information:			DOC-elimination
			degree(complexi
			ng organic
			substance)>=
			80%/28d: No

Hydrocarbons, C10-C13	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.5. Results of PBT	-						No PBT				
and vPvB assessment							substance, No				
							vPvB substance				
Water solubility:							Product floats on				
							the water				
							surface.				
12.1. Toxicity to fish:	LL50	96h	>1000	mg/l	Oncorhynchus	OECD 203 (Fish,					
					mykiss	Acute Toxicity					
						Test)					
12.1. Toxicity to fish:	NOELR	28d	0,101	mg/l	Oncorhynchus						
					mykiss						
12.1. Toxicity to daphnia:	EL50	48h	>1000	mg/l	Daphnia magna	OECD 202					
						(Daphnia sp.					
						Acute					
						Immobilisation					
						Test)					
12.1. Toxicity to daphnia:	NOELR	21d	0,176	mg/l	Daphnia magna						
12.1. Toxicity to algae:	EL50	72h	>1000	mg/l	Pseudokirchneriell	OECD 201 (Alga,					
					a subcapitata	Growth Inhibition					
						Test)					



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12.2. Persistence and degradability:		28d	80	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
Other organisms:	EL50	48h	>1000	mg/l	Tetrahymen pyriformis		

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2	mg/l	Brachydanio rerio	OECD 203 (Fish,	NOIES
12.1. Toxicity to fish.	LC30	9011	4	IIIg/I	Brachydanio ferio		
						Acute Toxicity	
10.1 = 1.11	E050	401	400		<u> </u>	Test)	
12.1. Toxicity to daphnia:	EC50	48h	>12,6	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	3,22	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to fish:	NOEC/NOEL	96h	1,42	mg/l			
12.2. Persistence and		28d	0	%		OECD 310	Not readily
degradability:						(Ready	biodegradable
						Biodegradability -	_
						CO2 in sealed	
						vessels	
						(Headspace Test))	
12.3. Bioaccumulative	BCF		1332			, , , , , , , , , , , , , , , , , , , ,	
potential:							
12.3. Bioaccumulative	Log Pow		3,74-				A notable
potential:	•		5,24				biological
`			,				accumulation
							potential has to
							be expected
							(LogPow > 3).
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
and the to decedent in the							vPvB substance
12.4. Mobility in soil:	Log Koc		3,75			OECD 121	VI VD Gabotario
12	_0go		0,.0			(Estimation of the	
						Adsorption	
						Coefficient (Koc)	
						on Soil and on	
						Sewage Sludge	
						using HPLC)	
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209	
TOXICITY TO DACTETIA.	L030	311	71000	ilig/i	activated studge	(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
		1		1	1	Oxidation))	I
Other information:	AOX		0	%			No

Ethanediol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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Toxicity to bacteria:	EC20	30min	>1995	mg/l	activated sludge	OECD 209	
TOXICITY TO DACTETIA.	LOZU	3011111	71993	1119/1	activated studge		
						(Activated Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
						Oxidation))	
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Pimephales	IUCLID Chem.	
					promelas	Data Sheet (ESIS)	
12.1. Toxicity to fish:	NOEC/NOEL	7d	15380	mg/l	Pimephales	U.S. EPA	
					promelas	ECOTOX	
					'	Database	
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202	
, ,					'	(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL		8590	mg/l	Daphnia magna	U.S. EPA	
·=···· concity to daprimar					2 aprilla magna	ECOTOX	
						Database	
12.1. Toxicity to algae:	EC50	96h	6500-	mg/l	Pseudokirchneriell	Databass	
12.11 Toxiony to digue.	2000	00	7500	1119/1	a subcapitata		
12.2. Persistence and		28d	56	%	a sassapitata	OECD 301 C	
degradability:		200		,,,		(Ready	
aogradaomy.						Biodegradability -	
						Modified MITI	
						Test (I))	
12.2. Persistence and		10d	90-100	%		OECD 301 A	Readily
degradability:		100	90-100	70		(Ready	biodegradable
degradability.						Biodegradability -	biodegradable
						DOC Die-Away	
12.3. Bioaccumulative	Log Dow		1.26			Test)	Not to bo
	Log Pow		-1,36				Not to be
potential:							expected
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
		ļ	1		<u> </u>		vPvB substance
Toxicity to bacteria:	EC50	16h	>10000	mg/l	Pseudomonas	IUCLID Chem.	
					putida	Data Sheet (ESIS)	
Other information:	BOD5		0,78	g/g			IUCLID

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.4. Mobility in soil:	Koc		800				
12.1. Toxicity to fish:	LC50	96h	28,2	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	17,1	mg/l	Leuciscus idus	Regulation (EC) 440/2008 C.1 (ACUTE TOXICITY FOR FISH)	
2.1. Toxicity to daphnia:	EC50	48h	39	mg/l	Daphnia magna	Regulation (EC) 440/2008 C.2 (DAPHNIA SP. ACUTE IMMOBILISATION TEST)	



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12.1. Toxicity to algae:	EC50	72h	11,5	mg/l	Scenedesmus	Regulation (EC)	
					subspicatus	440/2008 C.3	
						(FRESHWATER	
						ALGAE AND	
						CYANOBACTERI	
						A, GROWTH INHIBITION TEST)	
12.2. Persistence and	COD	14d	100	%	activated sludge	OECD 301 C	Readily
degradability:	COD	140	100	/0	activated studge	(Ready	biodegradable
degradability.						Biodegradability -	bloacgradable
						Modified MITI	
						Test (I))	
12.3. Bioaccumulative	Log Pow		2,9				Low
potential:							
12.3. Bioaccumulative	BCF		25,33				calculated value
potential:							
12.4. Mobility in soil:			-1,42				Not to be
10.5 D II (DDT							expected
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No vPvB substance
Toxicity to bacteria:	EC50	24h	>300	mg/l	activated sludge		VPVB substance
-							
Toxicity to bacteria:	EC50	3h	540	mg/l	Pseudomonas putida		
Toxicity to bacteria:	EC50	12h	> 100	mg/l	activated sludge		
TOXICITY TO DACTETIA.		1411	/ 100	ilig/I	activated studge		

Alcohols, C16-18 and C18-unsatd., ethoxylated							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	108	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.2. Persistence and degradability:		28d	>60	%	activated sludge	OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.1. Toxicity to algae:	EL50	72h	>10	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to daphnia:	EL50	48h	51	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:	DT50		0,04	d		OECD 307 (Aerobic and Anaerobic Transformation in Soil)	Readily biodegradable
12.1. Toxicity to fish:	LC50	96h	1,6	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	28d	0,21	mg/l	Oncorhynchus mykiss	OECD 215 (Fish, Juvenile Growth Test)	
12.1. Toxicity to daphnia:	EC50	48h	3,27	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	



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12.1. Toxicity to daphnia:	NOEC/NOEL	21d	1,2	mg/l	Daphnia magna	OECD 211
, ,			'		'	(Daphnia magna
						Reproduction Test)
12.1. Toxicity to algae:	EC50	72h	0,11	mg/l	Pseudokirchneriell	OECD 201 (Alga,
, ,					a subcapitata	Growth Inhibition
					·	Test)
12.2. Persistence and			90	%		OECD 302 B
degradability:						(Inherent
						Biodegradability -
						Zahn-
						Wellens/EMPA
						Test)
12.2. Persistence and	DOC		80	%	activated sludge	OECD 303 A
degradability:						(Simulation Test -
						Aerobic Sewage
						Treatment -
						Activated Sludge
						Units)
12.3. Bioaccumulative	BCF		6,95		Lepomis	OECD 305
potential:					macrochirus	(Bioconcentration -
						Flow-Through
						Fish Test)
12.3. Bioaccumulative	Log Kow		0,7			OECD 117
potential:						(Partition
						Coefficient (n-
						octanol/water) -
						HPLC method)
Toxicity to bacteria:	EC50	3h	13	mg/l	activated sludge	ISO 10712
Toxicity to bacteria:	EC20	3h	3,3	mg/l	activated sludge	OECD 209
						(Activated Sludge,
						Respiration
						Inhibition Test
						(Carbon and
						Ammonium
						Oxidation))

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

13 07 03 other fuels (including mixtures)

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

14.1. UN number:

3082

Transport by road/by rail (ADR/RID)



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14.2. UN proper shipping name:

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL NITRATE,1,2-

BENZISOTHIAZOL-3(2H)-ONE) 14.3. Transport hazard class(es):

14.3. Transport hazard class(es):914.4. Packing group:IIIClassification code:M6LQ:5 L

14.5. Environmental hazards: environmentally hazardous

Tunnel restriction code:



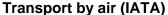
14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL NITRATE,1,2-BENZISOTHIAZOL-3(2H)-

ONE)

14.3. Transport hazard class(es):914.4. Packing group:IIIEmS:F-A, S-FMarine Pollutant:Yes

14.5. Environmental hazards: environmentally hazardous



14.2. UN proper shipping name:

Environmentally hazardous substance, liquid, n.o.s. (2-ETHYLHEXYL NITRATE,1,2-BENZISOTHIAZOL-3(2H)-ONE)

14.3. Transport hazard class(es):
9
14.4. Packing group:
III

14.5. Environmental hazards: environmentally hazardous

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

l	according to crorage, manaming cror	/ -		
	Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
			dangerous substances as	dangerous substances as
			referred to in Article 3(10) for the	referred to in Article 3(10) for the
			application of - Lower-tier	application of - Upper-tier
			requirements	requirements
ı	E2		200	500

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

~ 48,82 %

REGULATION (EC) No 648/2004

30 % and more aliphatic hydrocarbons less than 5 % non-ionic surfactants









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perfumes disinfectants

Observe Regulation (EU) No 528/2012 concerning the placing of biocidal products on the market.

Additional data acc. to Art. 69 (2), Regulation (EU) No 528/2012 (Biocide products):

The identity of every active substance and its concentration in metric units:

1,2-benzisothiazol-3(2H)-one

3,2 g/100 g

The uses:

Preservation

Biocidal product authorisation number (Regulation (EU) No. 528/2012):

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

3, 9, 11, 12, 15

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Acute Tox. 4, H332	Classification according to calculation procedure.
Acute Tox. 4, H302	Classification based on toxicological analyses.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Eye Dam. 1, H318	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H330 Fatal if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Acute Tox. — Acute toxicity - inhalation Acute Tox. — Acute toxicity - oral

Skin Irrit. — Skin irritation

Eye Dam. — Serious eye damage

Skin Sens. — Skin sensitization Asp. Tox. — Aspiration hazard



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Aquatic Chronic — Hazardous to the aquatic environment - chronic

Acute Tox. — Acute toxicity - dermal

Eye Irrit. — Eye irritation

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

STOT RE — Specific target organ toxicity - repeated exposure Aquatic Acute — Hazardous to the aquatic environment - acute

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the

International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances

and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community
ECHA European Chemicals Agency
EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

OECD Organisation for Economic Co-operation and Development

org. organic

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration



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mag parts per million **PVC** Polyvinylchloride

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List

Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

very persistent and very bioaccumulative vPvB

wet weight wwt

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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