



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

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

- **Product identifier**
- **Trade name: Oilfino Versus D**
- **UFI:** RH80-904W-900P-AWN7
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Corrosion inhibitors
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
oilfino Mineralöl GmbH
Werkstr. 12
D- 25497 Prisdorf
info@oilfino.com
Tel.: +49 (0) 4101 / 79900
www.oilfino.com
- **Further information obtainable from:** Sales
- **Emergency telephone number:**
Gift-Informationszentrum Nord (Göttingen)
Telefon +49 (0)551-19240

SECTION 2: Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 1)

Hazard pictograms

GHS07 GHS08

Signal word Danger**Hazard-determining components of labelling:**

Kohlenwasserstoffe, C11-C12. Isoalkane, <2% Aromaten
Reaktionsprodukte aus Benzolsulfonsäure, Mono-C20-24 (gerade)-sek-Alkylderivaten, para-,
Calciumsalze, Benzol, Polypropylen-Derivate, sulfonierte, Calciumsalze
Kohlenwasserstoffe, C11-C14, Isoalkane, cyclische, < 2% Aromaten
Kohlenwasserstoffe, C11-C13- Isoalkane, < 2 % Aromaten

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H304 May be fatal if swallowed and enters airways.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see on this label).
P331 Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

GB

(Contd. on page 3)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 2)

SECTION 3: Composition/information on ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

EC number: 918-167-1	Kohlenwasserstoffe, C11-C12. Isoalkane, <2% Aromaten Flam. Liq. 3, H226; Asp. Tox. 1, H304	≥25-<50%
EC number: 927-285-2	Kohlenwasserstoffe, C11-C14, Isoalkane, cyclische, < 2% Aromaten Asp. Tox. 1, H304	≥10-<25%
EC number: 920-901-0	Kohlenwasserstoffe, C11-C13- Isoalkane, < 2 % Aromaten Asp. Tox. 1, H304	≥10-<25%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥2.5-<10%
CAS: 123-42-2 EINECS: 204-626-7	4-hydroxy-4-methylpentan-2-one Flam. Liq. 3, H226; Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 10 %	≥0-<10%
EC number: 947-519-7	Reaktionsprodukte aus Benzolsulfonsäure, Mono-C20-24 (gerade)-sek-Alkylderivaten, para-, Calciumsalze, Benzol, Polypropylen-Derivate, sulfonierte, Calciumsalze Skin Sens. 1, H317	≥1-<10%
EC number: 939-717-7	Calciumbis(dinonylnaphthalinsulfonat) Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥0-<10%

- **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons	≥30%
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- **Additional information:**

Classification as a carcinogen is not compulsory if mineral oils in this mixture contain less than 3 % DMSO extract, according to IP 346 method.
For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.

(Contd. on page 4)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 3)

- In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Sand
Foam
Water haze
CO₂, powder or water spray. Fight larger fires with water spray.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

GB

(Contd. on page 5)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 4)

SECTION 7: Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class (TRGS):** 10
- **Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

Ingredients with limit values that require monitoring at the workplace:

111-76-2 2-butoxyethanol

WEL	Short-term value: 246 mg/m ³ , 50 ppm Long-term value: 123 mg/m ³ , 25 ppm Sk, BMGV
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123-42-2 4-hydroxy-4-methylpentan-2-one

WEL	Short-term value: 362 mg/m ³ , 75 ppm Long-term value: 241 mg/m ³ , 50 ppm
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· DNELs

111-76-2 2-butoxyethanol

Oral	DNEL Long-term - oral, systemic effects	6.9 mg/kg_bw/day (general public)
	DNEL Acute - oral, systemic effects	26.7 mg/kg bw/day (general public)
Dermal	DNEL Long-term – dermal, local effects	75 mg/kg bw/day (general public)
	DNEL Acute - dermal systemic effects	89 mg/kg bw/day (Worker) 89 mg/kg bw/day (general public)

(Contd. on page 6)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 5)

Inhalative	DNEL Long-term – inhalation, systemic effects	59 mg/m ³ /day (general public)
	DNEL Acute – inhalation, systemic effects	1,091 mg/m ³ (Worker)
		426 mg/m ³ (general public)
	DNEL Acute - inhalation, local effects	246 mg/m ³ (Worker)
		147 mg/m ³ (general public)
123-42-2 4-hydroxy-4-methylpentan-2-one		
Oral	DNEL Long-term - oral, systemic effects	66.4 mg/kg_bw/day (Worker)
		3.4 mg/kg_bw/day (general public)
Dermal	DNEL Long-term – dermal, systemic effects	3.4 mg/kg_bw/day (general public)
	DNEL Long-term – dermal, local effects	9.4 mg/kg bw/day (Worker)
Inhalative	DNEL long-term - inhalation local effects	11.8 mg/m ³ (general public)
	DNEL Long-term – inhalation, systemic effects	66.4 mg/m ³ /day (Worker)
		11.8 mg/m ³ /day (general public)
	DNEL Acute - inhalation, local effects	240 mg/m ³ (Worker)
		120 mg/m ³ (general public)
Reaktionsprodukte aus Benzolsulfonsäure, Mono-C20-24 (gerade)-sek-Alkylderivaten, para-, Calciumsalze, Benzol, Polypropylen-Derivate, sulfonierte, Calciumsalze		
Oral	DNEL Long-term - oral, systemic effects	0.8333 mg/kg_bw/day (general public)
Dermal	DNEL Long-term – dermal, systemic effects	3.33 mg/kg_bw/day (Worker)
		1.667 mg/kg_bw/day (general public)
Inhalative	DNEL Long-term – inhalation, systemic effects	0.66 mg/m ³ /day (Worker)
	DNEL Derived No Effects Level	0.33 mg/m ³ (general public)

· PNECs**111-76-2 2-butoxyethanol**

PNEC short term, fresh water	8.8 mg/l (Aquatic organisms)
PNEC short term, sea water	0.88 mg/l (Aquatic organisms)
PNEC short term, sewage plant	463 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	34.6 mg/kg (Aquatic organisms)
PNEC short term soil	3.13 mg/kg (terrestrial organisms)
PNEC short term sea water sediment	3.46 mg/kg (Aquatic organisms)
PNEC secondary poisoning	20 mg/kg KG/d

123-42-2 4-hydroxy-4-methylpentan-2-one

PNEC short term, fresh water	2 mg/l (Aquatic organisms)
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(Contd. on page 7)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 6)

PNEC short term, sea water	0.2 mg/l (Aquatic organisms)
PNEC short term, sewage plant	82 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	9.6 mg/kg (Aquatic organisms)
PNEC short term soil	0.63 mg/kg (terrestrial organisms)
PNEC short term sea water sediment	0.91 mg/kg (Aquatic organisms)
Reaktionsprodukte aus Benzolsulfonsäure, Mono-C20-24 (gerade)-sek-Alkylderivaten, para-, Calciumsalze, Benzol, Polypropylen-Derivate, sulfonierte, Calciumsalze	
PNEC short term, fresh water	1 mg/l (Aquatic organisms)
PNEC short term, sea water	1 mg/l (Aquatic organisms)
PNEC short term, sewage plant	100 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	>723,500 mg/kg (Aquatic organisms)
PNEC short term soil	>8,687,000 mg/kg (terrestrial organisms)
PNEC short term sea water sediment	>72,350 mg/kg (Aquatic organisms)
PNEC secondary poisoning	16,667 mg/kg KG/d

· Ingredients with biological limit values:

111-76-2 2-butoxyethanol

BMGV 240 mmol/mol creatinine
Medium: urine
Sampling time: post shift
Parameter: butoxyacetic acid

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 8)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 7)

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Fluid
Colour:	Brown
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value: Not determined.**Change in condition****Melting point/freezing point:** Undetermined.

(Contd. on page 9)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 8)

Initial boiling point and boiling range:	Undetermined.
· Flash point:	62 °C
· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C:	0.785-0.81 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 40 °C:	2.8-4.2 mm ² /s
· Solvent content:	
Organic solvents:	5-<10 %
VOC (EC)	5-<10 %
Solids content:	0.0 %
· Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **Reactivity** No further relevant information available.

(Contd. on page 10)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 9)

- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	>14,800-29,600 mg/kg (rat)
Dermal	LD50	>4,000-8,000 mg/kg (rab)
Inhalative	LD50	>110-220 mg/kg

Kohlenwasserstoffe, C11-C12. Isoalkane, <2% Aromaten

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LD50	>5,000 mg/kg (rat)

Kohlenwasserstoffe, C11-C14, Isoalkane, cyclische, < 2% Aromaten

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (RBT)
Inhalative	LD50	>5,000 mg/kg (rat)

Kohlenwasserstoffe, C11-C13- Isoalkane, < 2 % Aromaten

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LD50	>5,000 mg/kg (rat)

111-76-2 2-butoxyethanol

Oral	LD50	1,480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab)

123-42-2 4-hydroxy-4-methylpentan-2-one

Oral	LD50	4,000 mg/kg (rat)
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(Contd. on page 11)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 10)

Dermal	LD50	13,630 mg/kg (rab)
Reaktionsprodukte aus Benzolsulfonsäure, Mono-C20-24 (gerade)-sek-Alkylderivaten, para-, Calciumsalze, Benzol, Polypropylen-Derivate, sulfonierte, Calciumsalze		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Calciumbis(dinonylnaphthalinsulfonat)		
Oral	LD50	>2,500 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50 (4h)	>9,000 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· **Toxicity**

· **Aquatic toxicity:**

Kohlenwasserstoffe, C11-C12. Isoalkane, <2% Aromaten

EL50 (48h)	>1,000 mg/l (Daphnia magna)
EC50 (72h)	>1,000 mg/l (algae)
LL50 (48h)	>1,000 mg/l (Fish)
LL50 (24h)	>1,000 mg/l (Fish)

(Contd. on page 12)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 11)

NOEC	>1 mg/ml /28d (Daphnia magna)
NOELR (72h)	1,000 ml/l (algae)
NOELR (28d)	0.103 mg/ltr. (Oncorhynchus mykiss)
Kohlenwasserstoffe, C11-C14, Isoalkane, cyclische, < 2% Aromaten	
EL50 (48h)	>1,000 mg/l (Daphnia magna)
EC50 (96h) mg/ltr	>1,000 mg/ltr (Oncorhynchus mykiss)
LL50 (96h)	>1,000 mg/l (Oncorhynchus mykiss)
NOELR (72h)	1,000 ml/l (Pseudokirchneriella subcapitata)
NOELR (28d)	1 mg/ltr. (Daphnia magna)
Kohlenwasserstoffe, C11-C13- Isoalkane, < 2 % Aromaten	
EC50 (48h)	mg/l (Daphnia magna)
EL50 (48h)	>1,000 mg/l (Daphnia magna)
EL 50(72h)	>1,000 mg/l (Pseudokirchneriella subcapitata)
LL50 (96h)	>1,000 mg/l (Oncorhynchus mykiss)
NOELR (72h)	1,000 ml/l (Pseudokirchneriella subcapitata)
NOELR (28d)	0.32 mg/ltr. (Oncorhynchus mykiss)
111-76-2 2-butoxyethanol	
LC50 (96h) mg/ltr.	1,474 mg/ltr (Oncorhynchus mykiss)
EC50 (48h)	1,550 mg/l (Daphnia magna)
EC50 (72h)	1,840 mg/l (Pseudokirchneriella subcapitata)
NOEC	100 mg/ml /21d (Daphnia magna)
123-42-2 4-hydroxy-4-methylpentan-2-one	
LC50 (96h) mg/ltr.	100 mg/ltr (Fish, minnows)
EC50 (48h)	>1,000 mg/l (Daphnia magna)
EC50 (72h)	>1,000 mg/l (algae)
NOEC	100 mg/ml /21d (Daphnia magna)
Reaktionsprodukte aus Benzolsulfonsäure, Mono-C20-24 (gerade)-sek-Alkylderivaten, para-, Calciumsalze, Benzol, Polypropylen-Derivate, sulfonierte, Calciumsalze	
LC50 (96h) mg/ltr.	>1,000 mg/ltr (Fish, minnows)
	>100 mg/ltr (rainbow trout)
EC50 (48h)	>1,000 mg/l (Daphnia magna)
EC50 (72h)	>1,000 mg/l (Pseudokirchneriella subcapitata)

· **Persistence and degradability** No further relevant information available.

(Contd. on page 13)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 12)

- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils
15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **UN-Number**
- **ADR, IMDG, IATA** not regulated
- **UN proper shipping name**
- **ADR, IMDG, IATA** not regulated

(Contd. on page 14)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 13)

· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	not regulated
· Packing group	
· ADR, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· UN "Model Regulation":	not regulated

SECTION 15: Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- **Disclaimer**
This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product properties, product information or product specifications and does not establish a contractual legal relationship. This document is only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user from the obligation to ensure that he acts in accordance with all regulations in connection with his activity.

(Contd. on page 15)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.02.2021

Version number 1.4

Revision: 25.02.2021

Trade name: Oilfino Versus D

(Contd. of page 14)

· Relevant phrases

- H226 Flammable liquid and vapour.
- 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.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.

· Department issuing SDS: Environmental Protection Department**· Contact:** MSDS authorized Person**· Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- Asp. Tox. 1: Aspiration hazard – Category 1

· * Data compared to the previous version altered.