



# WOLF GASOLINE TREATMENT

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 24/02/2010 Revision date: 07/05/2024 Supersedes version of: 28/11/2023 Version: 5.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : WOLF GASOLINE TREATMENT  
UFI : CNJD-MM33-6H69-1J8Y  
Product code : 70310  
Type of product : WOLF  
Product group : Blend

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use  
Industrial/Professional use spec : Non-dispersive use  
Used in closed systems  
Function or use category : Lubricants and additives

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

WOLF OIL CORPORATION N.V.  
Georges Gilliotstraat, 52  
2620 Hemiksem, Antwerpen  
België  
T 0032 (0)3 870 00 00, F 0032 (0)3 870 00 99  
[msds@wolfoil.com](mailto:msds@wolfoil.com), <https://www.wolflubes.com/>

#### 1.4. Emergency telephone number

Emergency number : 0032 (0)3 870 00 00

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090	+356 2545 6508	
Sweden	Giftinformationscentralen	Box 60 500 171 76 Stockholm	112 – begär Giftinformation +46 10 456 6700 (Från utlandet)	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Carcinogenicity, Category 2 H351

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Hazardous to the aquatic environment – Chronic Hazard, H412  
Category 3  
Full text of H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS08

Signal word (CLP) : Warning  
Contains : Hydrocarbons, C10, aromatics, >1% naphtalene  
Hazard statements (CLP) : H351 - Suspected of causing cancer.  
H412 - Harmful to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P273 - Avoid release to the environment.  
P280 - Wear face protection, eye protection, protective clothing, protective gloves.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P405 - Store locked up.  
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments : The mineral oils in the product contain < 3% DMSO extract (IP 346)

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Phenol, (dimethylamino)methyl-,polyisobutylene derivatives	EC-No.: 937-027-0	1 – 4.99	Aquatic Chronic 3, H412
Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics	EC-No.: 918-481-9 REACH-no: 01-2119457273-39	1 – 4.99	Asp. Tox. 1, H304
Hydrocarbons, C10, aromatics, >1% naphtalene	EC-No.: 919-284-0 REACH-no: 01-2119463588-24	1 – 1.99	Carc. 2, H351 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Ethylhexan-1-ol	CAS-No.: 104-76-7 EC-No.: 203-234-3 REACH-no: 01-2119487289-20	1 – 1.49	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	CAS-No.: 1218787-32-6 EC-No.: 620-540-6 REACH-no: 01-2119510877-33	0.1 – 0.99	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
naphthalene	CAS-No.: 91-20-3 EC-No.: 202-049-5 EC Index-No.: 601-052-00-2	0.1 – 0.24	Carc. 2, H351 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Not expected to require first aid measures.
First-aid measures after skin contact	: Wash skin with mild soap and water.
First-aid measures after eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water fog. Foam. Powder. Dry chemical product.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing and gloves.

##### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and gloves.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Impound and recover large spill by mixing it with inert granular solids.  
Methods for cleaning up : Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.  
Other information : Spill area may be slippery. Use suitable disposal containers.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.  
Handling temperature : < 40 °C  
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage temperature : ≤ 40 °C  
Storage area : Store in dry, cool, well-ventilated area.  
Special rules on packaging : Packaging destined for the general public must be fitted with a tactile danger indication.

##### Germany

Storage class (LGK, TRGS 510) : LGK 10-13 - Other combustible and non-combustible substances

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

##### 2-Ethylhexan-1-ol (104-76-7)

##### EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	5.4 mg/m <sup>3</sup>
	1 ppm

##### Austria - Occupational Exposure Limits

MAK (OEL TWA)	5.4 mg/m <sup>3</sup>
	1 ppm

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2-Ethylhexan-1-ol (104-76-7)	
OEL C	10.8 mg/m <sup>3</sup>
	2 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	5.4 mg/m <sup>3</sup>
	1 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	5.4 mg/m <sup>3</sup>
	1 ppm
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	5.4 mg/m <sup>3</sup>
	1 ppm
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	5.4 mg/m <sup>3</sup>
	0.999 ppm
Denmark - Occupational Exposure Limits	
OEL TWA	5.4 mg/m <sup>3</sup>
	1 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	5.4 mg/m <sup>3</sup>
	1 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	5.4 mg/m <sup>3</sup>
	1 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	5.4 mg/m <sup>3</sup>
	1 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	54 mg/m <sup>3</sup>
	10 ppm
AGW (OEL C)	54 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	10 ppm
Greece - Occupational Exposure Limits	
OEL TWA	5.4 mg/m <sup>3</sup>
	1 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	5.4 mg/m <sup>3</sup>
Ireland - Occupational Exposure Limits	
OEL TWA	5.4 mg/m <sup>3</sup>

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2-Ethylhexan-1-ol (104-76-7)	
	1 ppm
Italy - Occupational Exposure Limits	
OEL TWA	5.4 mg/m <sup>3</sup>
	1 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	5.4 mg/m <sup>3</sup>
	1 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	5.4 mg/m <sup>3</sup>
	1 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	5.4 mg/m <sup>3</sup>
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	5.4 mg/m <sup>3</sup>
Portugal - Occupational Exposure Limits	
OEL TWA	5.4 mg/m <sup>3</sup>
	1 ppm
Romania - Occupational Exposure Limits	
OEL TWA	5.4 mg/m <sup>3</sup>
	1 ppm
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	5.4 mg/m <sup>3</sup>
	1 ppm
Slovenia - Occupational Exposure Limits	
OEL TWA	5.4 mg/m <sup>3</sup>
	1 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	5.4 mg/m <sup>3</sup>
	1 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	5.4 mg/m <sup>3</sup>
	1 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	5.4 mg/m <sup>3</sup>
	1 ppm
Iceland - Occupational Exposure Limits	
OEL TWA	5.4 mg/m <sup>3</sup>
	1 ppm

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2-Ethylhexan-1-ol (104-76-7)	
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	5.4 mg/m <sup>3</sup>
	1 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	5.4 mg/m <sup>3</sup>
	1 ppm
naphthalene (91-20-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	50 mg/m <sup>3</sup>
	10 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	53 mg/m <sup>3</sup>
	10 ppm
OEL STEL	80 mg/m <sup>3</sup>
	15 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup> 8h
OEL STEL	75 mg/m <sup>3</sup> 15 min.
Denmark - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
OEL STEL	100 mg/m <sup>3</sup>
	20 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	5 mg/m <sup>3</sup>
	1 ppm
HTP (OEL STEL)	10 mg/m <sup>3</sup>
	2 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	2 mg/m <sup>3</sup>

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naphthalene (91-20-3)	
	0.4 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	50 mg/m <sup>3</sup>
Ireland - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
Italy - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	50 mg/m <sup>3</sup>
TGG-15min (OEL STEL)	80 mg/m <sup>3</sup>
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	20 mg/m <sup>3</sup>
NDSch (OEL STEL)	50 mg/m <sup>3</sup>
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
VLA-EC (OEL STEL)	80 mg/m <sup>3</sup>
	15 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
KTV (OEL STEL)	80 mg/m <sup>3</sup>
	15 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	50 mg/m <sup>3</sup>
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	10 mg/m <sup>3</sup>



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naphthalene (91-20-3)	
ACGIH OEL STEL	15 fibers/cm <sup>3</sup>
Hydrocarbons, C10, aromatics, >1% naphthalene	
Belgium - Occupational Exposure Limits	
OEL TWA	200 mg/m <sup>3</sup>
Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics	
Belgium - Occupational Exposure Limits	
OEL TWA	200 mg/m <sup>3</sup>
OEL STEL	200 mg/m <sup>3</sup>

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

Additional information

: 5 mg/m<sup>3</sup> for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No additional information available

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Safety glasses. Gloves.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

No additional information available

#### 8.2.2.2. Skin protection

##### Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

##### Hand protection:

Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) /

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

#### 8.2.2.4. Thermal hazards

No additional information available

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### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Oily liquid.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 128 °C (ASTM D93)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 13 mm <sup>2</sup> /s @40°C (ASTM D445)
Solubility	: Slightly soluble, the product remains on the water surface.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 852 kg/m <sup>3</sup> @ 15°C (ASTM D4052)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal conditions.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

Strong oxidizers. acids. Bases.

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### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### 2-Ethylhexan-1-ol (104-76-7)

LD50 oral rat	2040 mg/kg (OECD 401)
LD50 dermal rat	1970 mg/kg
LD50 dermal rabbit	> 3000 mg/kg
LC50 Inhalation - Rat	> 0.89 mg/l/4h @4h
LC50 Inhalation - Rat (Vapours)	≥ 1 – < 5.3 mg/l/4h (OECD 403)

#### naphthalene (91-20-3)

LD50 oral rat	533 mg/kg (OECD 401)
LD50 dermal rat	> 16000 mg/kg (OECD 402)
LC50 Inhalation - Rat	500 mg/m³ @8h
LC50 Inhalation - Rat (Vapours)	> 0.4 mg/l/4h (OECD 403)

#### Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

LD50 oral rat	> 5000 mg/kg OECD 401
LD50 dermal rabbit	> 5000 mg/kg OECD 402
LC50 Inhalation - Rat	> 5000 mg/m³ 4h

#### 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

LD50 oral rat	300 – 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat [ppm]	220 ppm @1h

Skin corrosion/irritation : Not classified

#### naphthalene (91-20-3)

Skin corrosion/irritation, rabbit	Negative
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Serious eye damage/irritation : Not classified

#### naphthalene (91-20-3)

Serious eye damage/irritation, rabbit	Negative
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Respiratory or skin sensitisation : Not classified

#### naphthalene (91-20-3)

Skin sensitization, Guinea pig	Negative (OECD 406)
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Germ cell mutagenicity : Not classified

#### naphthalene (91-20-3)

Mammalian Chromosomal Aberration Test, In vitro, mammalian	Positive (OECD 473, WOE does not support classification.)
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<b>naphthalene (91-20-3)</b>	
Bacterial Reverse Mutation Test, In vitro, Bacteria	Negative
, In vitro, mammalian	Negative
, In vivo, mammalian	Negative (OECD 486)
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)</b>	
In vitro	Negative
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
<b>2-Ethylhexan-1-ol (104-76-7)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>Hydrocarbons, C10, aromatics, &gt;1% naphthalene</b>	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
<b>2-Ethylhexan-1-ol (104-76-7)</b>	
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day
<b>naphthalene (91-20-3)</b>	
LOAEC (inhalation, rat, vapour, 90 days)	0.011 mg/l (OECD 413)
NOAEL (subchronic, oral, 90 days)	200 mg/kg bodyweight/day (OECD 408)
NOAEL (subchronic, dermal, 90 days)	1000 mg/kg bodyweight/day (OECD 411)
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)</b>	
NOAEL (subacute, oral, 28 days)	12 mg/kg bodyweight/day
Aspiration hazard	: Not classified
<b>WOLF GASOLINE TREATMENT</b>	
Viscosity, kinematic	13 mm²/s @40°C (ASTM D445)

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

<b>2-Ethylhexan-1-ol (104-76-7)</b>	
LC50 - Fish [1]	17.1 mg/l @96h; Leuciscus idus melanotus
LC50 - Fish [2]	28.2 mg/l @96h; Pimephales promelas
EC50 - Crustacea [1]	39 mg/l @48h; Daphnia magna
EC50 72h - Algae [1]	16.6 mg/l Scenedesmus quadricauda
ErC50 other aquatic plants	540 mg/l @0.1d; Pseudomonas putida

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naphthalene (91-20-3)	
LC50 - Fish [1]	1.6 mg/l @96h; Oncorhynchus mykiss
EC50 - Crustacea [1]	2.16 mg/l @48h; Daphnia magna
EC50 96h - Algae [1]	2.96 mg/l Pseudokirchneriella subcapitata
NOEC (chronic)	0.59 mg/l @125d - Daphnia duplex
NOEC chronic fish	0.12 mg/l @40d; Oncorhynchus gorbuscha

Hydrocarbons, C10, aromatics, >1% naphthalene	
LC50 - Fish [1]	2 mg/l @96h; Oncorhynchus mykiss
EC50 - Crustacea [1]	3 mg/l @48h; Daphnia magna
EC50 72h - Algae [1]	1.1 mg/l Selenastrum capricornutum

Phenol, (dimethylamino)methyl-,polyisobutylene derivatives	
LC50 - Fish [1]	31 mg/l @96h; Pimephales promelas
EC50 - Crustacea [1]	> 100 mg/l @48h; Daphnia Magna
EC50 72h - Algae [1]	> 450 mg/l Selenastrum capricornutum

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics	
LC50 - Fish [1]	> 1000 mg/l @96h; Oncorhynchus mykiss
EC50 - Crustacea [1]	> 1000 mg/l @48h; Daphnia Magna
EC50 72h - Algae [1]	> 1000 mg/l Pseudokirchneriella subcapitata

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)	
LC50 - Fish [1]	0.1 mg/l @96h; Danio rerio
LC50 - Fish [2]	0.1 mg/l @96h; Brachydanio rerio
EC50 - Crustacea [1]	0.043 mg/l @48h; Daphnia magna
EC50 - Other aquatic organisms [1]	167 mg/l @3h, sludge
EC50 72h - Algae [1]	0.0538 mg/l Pseudokirchneriella subcapitata
NOEC chronic crustacea	0.0107 mg/l @21d, Daphnia magna
NOEC chronic algae	0.0156 mg/l @72h; Pseudokirchneriella subcapitata

## 12.2. Persistence and degradability

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Persistence and degradability	Not soluble in water, so only minimally biodegradable.
2-Ethylhexan-1-ol (104-76-7)	
Persistence and degradability	Readily biodegradable.
Biodegradation	100 % @14d (OECD 301C)
naphthalene (91-20-3)	
Persistence and degradability	Inherently biodegradable.
Biodegradation	0 – 2 % @28d (OECD 302C)
Hydrocarbons, C10, aromatics, >1% naphthalene	
Persistence and degradability	Rapidly degradable

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<b>Hydrocarbons, C10, aromatics, &gt;1% naphtalene</b>	
Biodegradation	58 % @28d (OECD TG 301F)
<b>Phenol, (dimethylamino)methyl-,polyisobutylene derivatives</b>	
Persistence and degradability	Rapidly degradable
Biodegradation	20.7 % @28d
<b>Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, &lt;2% aromatics</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	80 % @28d (OECD TG 301F)
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)</b>	
Persistence and degradability	Rapidly degradable
BOD (% of ThOD)	63 % ThOD
Biodegradation	61 – 65 % @28d (OECD TG 301D)

### 12.3. Bioaccumulative potential

<b>2-Ethylhexan-1-ol (104-76-7)</b>	
Bioconcentration factor (BCF REACH)	25.35
Partition coefficient n-octanol/water (Log Pow)	2.9
Bioaccumulative potential	Low.
<b>naphthalene (91-20-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.4
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)</b>	
Bioconcentration factor (BCF REACH)	110.2 calculated
Partition coefficient n-octanol/water (Log Kow)	3.6

### 12.4. Mobility in soil

<b>2-Ethylhexan-1-ol (104-76-7)</b>	
Mobility in soil	1.42
<b>Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, &lt;2% aromatics</b>	
Ecology - soil	Volatile liquid.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Additional information : Dispose in a safe manner in accordance with local/national regulations.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

#### 14.1. UN number or ID number

Not regulated for transport

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable

#### 14.3. Transport hazard class(es)

**ADR**  
Transport hazard class(es) (ADR) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable

**IATA**  
Transport hazard class(es) (IATA) : Not applicable

**ADN**  
Transport hazard class(es) (ADN) : Not applicable

**RID**  
Transport hazard class(es) (RID) : Not applicable

#### 14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available

#### 14.6. Special precautions for user

**Overland transport**  
No data available

**Transport by sea**  
No data available

**Air transport**  
No data available

**Inland waterway transport**  
No data available

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### Rail transport

No data available

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

##### France

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

##### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed



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SZW-lijst van reprotoxische stoffen – : None of the components are listed  
Vruchtbaarheid  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product  
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

## 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
	SDS EU format	Modified	
1.1	UFI on SDS 1.1	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Hazard statements (CLP)	Modified	
2.2	Hazard pictograms (CLP)	Added	
2.2	Signal word (CLP)	Added	
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
9.1	Flash point	Modified	
9.1	Density	Modified	
9.1	Viscosity, kinematic	Modified	

Other information : The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

### Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2

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Full text of H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.