

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

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

#### 1.1 Product identifier

Trade name : ENGINE-OIL-TREATMENT - 300 ML  
Product code : 5861300300

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

Use of the Sub-stance/Mixture : Engine oil, Additive  
Professional use product  
Recommended restrictions on use : Not applicable

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

Company : Adolf Wuerth GmbH & Co. KG  
Reinhold-Würth-Str. 12-17  
74653 Künzelsau  
Telephone : +49 794015 0  
Telefax : +49 794015 10 00  
E-mail address of person responsible for the SDS : isi@wuerth.com

#### 1.4 Emergency telephone number

+49 (0)6132 – 84463

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Category 3      H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412      Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



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Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
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P273      Avoid release to the environment.

### Additional Labelling

|| EUH208      Contains Maleic anhydride. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 649-467-00-8 01-2119484627-25	Asp. Tox. 1; H304	>= 1 - < 10
Amides, coco, N,N-bis(hydroxyethyl)-, reaction products with coco monoglycerides and molybdenum oxide	445409-27-8 430-380-7 616-136-00-4 01-0000017666-61	Aquatic Chronic 2; H411	>= 1 - < 2,5
Calcium branched alkyl phenate sulphide (overbased)	Not Assigned	Aquatic Chronic 4; H413	>= 1 - < 2,5
2,6-Di-tert-butylphenol	128-39-2 204-884-0 01-2119490822-33	Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0,25
Phenol, dodecyl-, branched	121158-58-5 310-154-3	Skin Corr. 1C; H314 Eye Dam. 1; H318	>= 0,025 - < 0,1

# SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878



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Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
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	604-092-00-9 01-2119513207-49	Repr. 1B; H360F Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <hr/> M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
Maleic anhydride	108-31-6 203-571-6 607-096-00-9 01-2119472428-31	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT RE 1; H372 (Respiratory Tract) EUH071 <hr/> specific concentration limit Skin Sens. 1A; H317 >= 0,001 % <hr/> Acute toxicity esti- mate  Acute oral toxicity: 1.090 mg/kg	< 0,001

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- Protection of first-aiders : No special precautions are necessary for first aid responders.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Wash with water and soap as a precaution.  
Get medical attention if symptoms occur.
- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.

# SAFETY DATA SHEET

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Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
6.0	22.05.2024	10638372-00012	Date of first issue: 06.12.2011

---

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

None known.

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

Treatment : Treat symptomatically and supportively.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Metal oxides  
Sulphur oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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## SECTION 6: Accidental release measures

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

Personal precautions : Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.

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Commission Regulation (EU) 2020/878



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Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
6.0	22.05.2024	10638372-00012	Date of first issue: 06.12.2011

---

Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

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

Requirements for storage areas and containers : Keep in properly labelled containers. Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:  
Strong oxidizing agents  
Gases

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
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Storage class (TRGS 510) : 10

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	AGW (Vapour and aerosols)	5 mg/m <sup>3</sup>	DE TRGS 900	
				Peak-limit: excursion factor (category): 4;(II)	
				Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	AGW (Vapour and aerosols)	5 mg/m <sup>3</sup>	DE TRGS 900	
				Peak-limit: excursion factor (category): 4;(II)	
				Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil based	72623-87-1	AGW (Vapour and aerosols)	5 mg/m <sup>3</sup>	DE TRGS 900	
				Peak-limit: excursion factor (category): 4;(II)	
				Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child	
Maleic anhydride	108-31-6	AGW (Vapour and aerosols)	0,02 ppm 0,081 mg/m <sup>3</sup>	DE TRGS 900	
				Peak-limit: excursion factor (category): 1; =2.5=(I)	
				Further information: In well-found cases also a momentary value can be established, that never can be exceeded. This substance will be indicated by = = in combination with an exceeding value., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Substance sensitizing through the skin and respiratory system	
				MAK	DE DFG MAK
				0,02 ppm 0,081 mg/m <sup>3</sup>	
Peak-limit: excursion factor (category): 1; I					
Further information: Danger of sensitization of the airways and the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed					
Mow			0,05 ppm 0,2 mg/m <sup>3</sup>	DE DFG MAK	
				Peak-limit: excursion factor (category): 1; I	
				Further information: Danger of sensitization of the airways and the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value	

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

|| is observed

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value	
Phenol, dodecyl-, branched	Workers	Inhalation	Long-term systemic effects	1,7621 mg/m <sup>3</sup>	
	Workers	Inhalation	Acute systemic effects	44,18 mg/m <sup>3</sup>	
	Workers	Skin contact	Long-term systemic effects	0,25 mg/kg bw/day	
	Workers	Skin contact	Acute systemic effects	166 mg/kg bw/day	
	Consumers	Inhalation	Long-term systemic effects	0,79 mg/m <sup>3</sup>	
	Consumers	Inhalation	Acute systemic effects	13,26 mg/m <sup>3</sup>	
	Consumers	Skin contact	Long-term systemic effects	0,075 mg/kg bw/day	
	Consumers	Skin contact	Acute systemic effects	50 mg/kg bw/day	
	Consumers	Ingestion	Long-term systemic effects	0,075 mg/kg bw/day	
	Consumers	Ingestion	Acute systemic effects	1,26 mg/kg bw/day	
	2,6-Di-tert-butylphenol	Workers	Inhalation	Long-term systemic effects	19,6 mg/m <sup>3</sup>
		Workers	Skin contact	Long-term systemic effects	2,77 mg/kg bw/day
Consumers		Inhalation	Long-term systemic effects	5,8 mg/m <sup>3</sup>	
Consumers		Ingestion	Long-term systemic effects	1,67 mg/kg bw/day	
Maleic anhydride	Workers	Inhalation	Long-term systemic effects	0,4 mg/m <sup>3</sup>	
	Workers	Inhalation	Acute systemic effects	0,8 mg/m <sup>3</sup>	
	Workers	Inhalation	Long-term local effects	0,4 mg/m <sup>3</sup>	
	Workers	Inhalation	Acute local effects	0,8 mg/m <sup>3</sup>	
Amides, coco, N,N-bis(hydroxyethyl)-, reaction products with coco monoglycerides and molybdenum oxide	Workers	Inhalation	Long-term systemic effects	3,53 mg/m <sup>3</sup>	
	Workers	Skin contact	Long-term systemic effects	0,5 mg/kg bw/day	
	Consumers	Inhalation	Long-term systemic effects	0,87 mg/m <sup>3</sup>	
	Consumers	Skin contact	Long-term systemic effects	0,25 mg/kg	

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according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

			effects	bw/day
	Consumers	Ingestion	Long-term systemic effects	0,25 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Phenol, dodecyl-, branched	Fresh water	0,074 µg/l
	Marine water	0,0074 µg/l
	Intermittent use/release	0,34 µg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	0,226 mg/kg
	Marine sediment	0,118 mg/kg
	Oral (Secondary Poisoning)	4 mg/kg food
2,6-Di-tert-butylphenol	Fresh water	0,00045 mg/l
	Marine water	0,000045 mg/l
	Intermittent use/release	0,0045 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0,196 mg/kg
	Marine sediment	0,0196 mg/kg
	Soil	0,0389 mg/kg
Oral (Secondary Poisoning)	6,67 mg/kg food	
Distillates (petroleum), hydrotreated heavy paraffinic	Oral (Secondary Poisoning)	9,33 mg/kg food
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil based	Oral (Secondary Poisoning)	9,33 mg/kg food
Maleic anhydride	Fresh water	0,1 mg/l
	Marine water	0,01 mg/l
	Freshwater - intermittent	0,4281 mg/l
	Sewage treatment plant	44,6 mg/l
	Fresh water sediment	0,334 mg/kg dry weight (d.w.)
	Marine sediment	0,0334 mg/kg dry weight (d.w.)
Soil		0,0415 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	9,33 mg/kg food
	Distillates (petroleum), hydrotreated heavy paraffinic	
Amides, coco, N,N-bis(hydroxyethyl)-, reaction products with coco monoglycerides and molybdenum oxide	Fresh water	0,047 mg/l
	Marine water	0,0047 mg/l
	Intermittent use/release	0,047 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0,709 mg/kg
	Marine sediment	0,0709 mg/kg
	Soil	1 mg/kg



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
6.0	22.05.2024	10638372-00012	Date of first issue: 06.12.2011

---

### 8.2 Exposure controls

#### Engineering measures

Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

#### Personal protective equipment

Eye/face protection : Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.

Wear the following personal protective equipment:

Safety glasses

Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Equipment should conform to DIN EN 166

Hand protection

Material	: Nitrile rubber
Break through time	: 480 min
Glove thickness	: 0,45 mm
Directive	: Equipment should conform to DIN EN 374

Remarks	: Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
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Skin and body protection : Skin should be washed after contact.

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.  
Equipment should conform to DIN EN 14387

Filter type : Combined particulates and organic vapour type (A-P)

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : dark green

Odour : oily

Odour Threshold : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

---

Melting point/freezing point : No data available

Initial boiling point and boiling range : > 200 °C

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Ignitable (see flash point)

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : 165 °C  
Method: ISO 3679

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : substance/mixture is non-soluble (in water)

Viscosity  
Viscosity, kinematic : 64 mm<sup>2</sup>/s (40 °C)  
Method: ISO 3104

Solubility(ies)  
Water solubility : insoluble

Partition coefficient: n-octanol/water : Not applicable

Vapour pressure : No data available

Density : 0,764 g/cm<sup>3</sup> (20 °C)  
Method: DIN 51757

Relative vapour density : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
6.0	22.05.2024	10638372-00012	Date of first issue: 06.12.2011

---

Particle characteristics  
Particle size : Not applicable

### 9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

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

Information on likely routes of exposure :  
Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

### Components:

#### **Distillates (petroleum), hydrotreated heavy paraffinic:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 5,53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Based on data from similar materials

#### **Amides, coco, N,N-bis(hydroxyethyl)-, reaction products with coco monoglycerides and molybdenum oxide:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

#### **2,6-Di-tert-butylphenol:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rat): > 1.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Phenol, dodecyl-, branched:**

Acute oral toxicity : LD50 (Rat): 2.100 mg/kg  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Remarks: Based on data from similar materials

#### **Maleic anhydride:**

Acute oral toxicity : LD50 (Rat): 1.090 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 4,35 mg/l  
Exposure time: 1 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 2.620 mg/kg

# SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
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---

### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### Distillates (petroleum), hydrotreated heavy paraffinic:

Species : Rabbit  
Result : No skin irritation  
Remarks : Based on data from similar materials

#### Amides, coco, N,N-bis(hydroxyethyl)-, reaction products with coco monoglycerides and molybdenum oxide:

Species : Rabbit  
Result : No skin irritation

#### 2,6-Di-tert-butylphenol:

Species : Rabbit  
Result : Skin irritation

#### Phenol, dodecyl-, branched:

Result : Corrosive after 1 to 4 hours of exposure  
Remarks : Based on national or regional regulation.

#### Maleic anhydride:

Species : in vitro membrane barrier  
Method : OECD Test Guideline 435  
Remarks : Based on data from similar materials

Result : Corrosive after 3 minutes to 1 hour of exposure

### Serious eye damage/eye irritation

Not classified based on available information.

### Components:

#### Distillates (petroleum), hydrotreated heavy paraffinic:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
Remarks : Based on data from similar materials

#### Amides, coco, N,N-bis(hydroxyethyl)-, reaction products with coco monoglycerides and molybdenum oxide:

Species : Rabbit  
Result : No eye irritation

#### 2,6-Di-tert-butylphenol:

Species : Rabbit

# SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
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---

|| Result : No eye irritation

### Phenol, dodecyl-, branched:

Result : Irreversible effects on the eye  
Remarks : Based on skin corrosivity.

### Maleic anhydride:

|| Species : Rabbit  
|| Result : Irreversible effects on the eye

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

### Components:

#### Distillates (petroleum), hydrotreated heavy paraffinic:

|| Test Type : Buehler Test  
|| Exposure routes : Skin contact  
|| Species : Guinea pig  
|| Method : OECD Test Guideline 406  
|| Result : negative  
|| Remarks : Based on data from similar materials

#### Amides, coco, N,N-bis(hydroxyethyl)-, reaction products with coco monoglycerides and molybdenum oxide:

|| Test Type : Maximisation Test  
|| Exposure routes : Skin contact  
|| Species : Guinea pig  
|| Method : OECD Test Guideline 406  
|| Result : negative

#### 2,6-Di-tert-butylphenol:

|| Test Type : Maximisation Test  
|| Exposure routes : Skin contact  
|| Species : Guinea pig  
|| Result : negative

### Phenol, dodecyl-, branched:

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

### Maleic anhydride:

Test Type : Local lymph node assay (LLNA)  
Exposure routes : Skin contact  
Species : Mouse  
Result : positive

Assessment : Probability or evidence of high skin sensitisation rate in humans

Exposure routes : inhalation (dust/mist/fume)  
Species : Rat  
Result : positive

Assessment : Probability of respiratory sensitisation in humans based on animal testing

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### Distillates (petroleum), hydrotreated heavy paraffinic:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Result: negative  
Remarks: Based on data from similar materials

#### Amides, coco, N,N-bis(hydroxyethyl)-, reaction products with coco monoglycerides and molybdenum oxide:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative  
  
Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
  
Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

#### 2,6-Di-tert-butylphenol:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

### Phenol, dodecyl-, branched:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Rat  
Result: negative

### Maleic anhydride:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow  
cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

### Carcinogenicity

Not classified based on available information.

### Components:

#### Distillates (petroleum), hydrotreated heavy paraffinic:

Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation  
(EC) 1272/2008, Annex VI, Part 3, Note L)

### Maleic anhydride:

Species : Rat  
Application Route : Ingestion  
Exposure time : 2 Years  
Result : negative

### Reproductive toxicity

Not classified based on available information.

### Components:

#### Distillates (petroleum), hydrotreated heavy paraffinic:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening  
test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 421



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

Result: negative  
Remarks: Based on data from similar materials

### Amides, coco, N,N-bis(hydroxyethyl)-, reaction products with coco monoglycerides and molybdenum oxide:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 416  
Result: negative

Effects on foetal development : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 416  
Result: negative

### 2,6-Di-tert-butylphenol:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Result: negative

### Phenol, dodecyl-, branched:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 416  
Result: positive  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative  
Remarks: Based on data from similar materials

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, based on animal experiments.

### Maleic anhydride:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

Application Route: Ingestion  
Result: negative

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Components:

#### Maleic anhydride:

Exposure routes : inhalation (vapour)  
Target Organs : Respiratory Tract  
Assessment : Shown to produce significant health effects in animals at concentrations of 0.2 mg/l/6h/d or less.

### Repeated dose toxicity

### Components:

#### Amides, coco, N,N-bis(hydroxyethyl)-, reaction products with coco monoglycerides and molybdenum oxide:

Species : Rat  
NOAEL : 150 mg/kg  
LOAEL : 1.000 mg/kg  
Application Route : Ingestion  
Exposure time : 28 Days  
Method : Directive 67/548/EEC, Annex V, B.7.

#### 2,6-Di-tert-butylphenol:

Species : Rat  
NOAEL : > 100 mg/kg  
Application Route : Ingestion  
Exposure time : 28 Days

#### Phenol, dodecyl-, branched:

Species : Rat  
NOAEL : 100 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days  
Method : OECD Test Guideline 408  
Remarks : Based on data from similar materials

#### Maleic anhydride:

Species : Rat  
LOAEL : 100 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
6.0	22.05.2024	10638372-00012	Date of first issue: 06.12.2011

Species	: Rat
LOAEL	: 0,01 mg/l
Application Route	: inhalation (vapour)
Exposure time	: 28 Days

### Aspiration toxicity

Not classified based on available information.

### Components:

#### Distillates (petroleum), hydrotreated heavy paraffinic:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Components:

#### Phenol, dodecyl-, branched:

Assessment : The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for human health.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### Distillates (petroleum), hydrotreated heavy paraffinic:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

plants	mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
	NOELR (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to microorganisms	: NOEC : > 1,93 mg/l Exposure time: 10 min Method: DIN 38 412 Part 8 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOELR: > 1 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: Water Accommodated Fraction Method: OECD Test Guideline 211 Remarks: Based on data from similar materials

### Amides, coco, N,N-bis(hydroxyethyl)-, reaction products with coco monoglycerides and molybdenum oxide:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 10 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 1,5 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: ErC50 (Desmodesmus subspicatus (green algae)): 4 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  NOEC (Desmodesmus subspicatus (green algae)): 0,625 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	: NOEC : 100 mg/l Exposure time: 28 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0,47 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

### Calcium branched alkyl phenate sulphide (overbased):

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): > 1.000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 1.000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Selenastrum capricornutum (fresh water algae)): > 1.000 mg/l Exposure time: 96 h

### Ecotoxicology Assessment

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

### 2,6-Di-tert-butylphenol:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 1,4 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0,45 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Pseudokirchneriella subcapitata (algae)): 3,9 mg/l Exposure time: 96 h
M-Factor (Acute aquatic toxicity)	: 1
M-Factor (Chronic aquatic toxicity)	: 1

### Phenol, dodecyl-, branched:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 40 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0,037 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green algae)): 0,36 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC (Pseudokirchneriella subcapitata (green algae)): 0,07 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Data from similar compositions
M-Factor (Acute aquatic toxicity)	: 10

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0037 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 10

### Maleic anhydride:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 115 mg/l  
Exposure time: 48 h  
Test substance: Neutralised product  
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l  
Exposure time: 48 h  
Test substance: Neutralised product  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (microalgae)): 150 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

ErC50 (Pseudokirchneriella subcapitata (microalgae)): > 150 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (Pseudomonas putida): 44,6 mg/l  
Exposure time: 18 h  
Test substance: Neutralised product  
Method: DIN 38 412 Part 8

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

## 12.2 Persistence and degradability

### Components:

#### **Distillates (petroleum), hydrotreated heavy paraffinic:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

**Amides, coco, N,N-bis(hydroxyethyl)-, reaction products with coco monoglycerides and molybdenum oxide:**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 57 %  
Exposure time: 28 d

### Calcium branched alkyl phenate sulphide (overbased):

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 4,7 - 10,8 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### 2,6-Di-tert-butylphenol:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 5 %  
Exposure time: 28 d

### Phenol, dodecyl-, branched:

Biodegradability : Result: Not inherently biodegradable.  
Biodegradation: 10 %  
Exposure time: 56 d  
Method: OECD Test Guideline 302  
Remarks: Based on data from similar materials

### Maleic anhydride:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 93,2 %  
Exposure time: 11 d  
Method: OECD Test Guideline 301B

## 12.3 Bioaccumulative potential

### Components:

#### Amides, coco, N,N-bis(hydroxyethyl)-, reaction products with coco monoglycerides and molybdenum oxide:

Partition coefficient: n-  
octanol/water : log Pow: > 4

### Calcium branched alkyl phenate sulphide (overbased):

Bioaccumulation : Bioconcentration factor (BCF): 2,2  
Partition coefficient: n-  
octanol/water : log Pow: 11,08

### 2,6-Di-tert-butylphenol:

Partition coefficient: n-  
octanol/water : log Pow: 4,5

### Phenol, dodecyl-, branched:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
6.0	22.05.2024	10638372-00012	Date of first issue: 06.12.2011

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Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Concentration: > 289 mg/l  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 7,14

### Maleic anhydride:

Partition coefficient: n-octanol/water : log Pow: -2,61

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Components:

##### Phenol, dodecyl-, branched:

Assessment : The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment.

### 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
6.0	22.05.2024	10638372-00012	Date of first issue: 06.12.2011

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Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

Waste Code : The following Waste Codes are only suggestions:

used product  
13 02 05, mineral-based non-chlorinated engine, gear and lubricating oils

unused product  
13 02 05, mineral-based non-chlorinated engine, gear and lubricating oils

uncleaned packagings  
15 01 10, packaging containing residues of or contaminated by hazardous substances

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.2 UN proper shipping name

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.4 Packing group

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
6.0	22.05.2024	10638372-00012	Date of first issue: 06.12.2011

<b>ADN</b>	:	Not regulated as a dangerous good
<b>ADR</b>	:	Not regulated as a dangerous good
<b>RID</b>	:	Not regulated as a dangerous good
<b>IMDG</b>	:	Not regulated as a dangerous good
<b>IATA (Cargo)</b>	:	Not regulated as a dangerous good
<b>IATA (Passenger)</b>	:	Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

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

Remarks : Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 75, 3
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Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
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Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
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Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
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Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import	:	Not applicable
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version 6.0      Revision Date: 22.05.2024      SDS Number: 10638372-00012      Date of last issue: 18.10.2023  
Date of first issue: 06.12.2011

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of dangerous chemicals

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

Water hazard class (Germany) : WGK 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : 5.2.1: Total dust:  
Not applicable  
5.2.2: Inorganic substances in powdered form:  
Not applicable  
5.2.4: Inorganic substances in gaseous form:  
Not applicable  
5.2.5: Organic Substances:  
Class 1: < 0,01 % Maleic anhydride  
5.2.7.1.1: Carcinogenic substance:  
Not applicable  
5.2.7.1.1: Quartz fine dust PM4:  
Not applicable  
5.2.7.1.1: Formaldehyde:  
Not applicable  
5.2.7.1.1: fibres:  
Not applicable  
5.2.7.1.2: Germ cell mutagens:  
Not applicable  
5.2.7.1.3: Substances toxic to reproduction:  
others: 0,03 % Phenol, dodecyl-, branched  
5.2.7.2: Poorly degradable, easily enrichable and highly toxic  
organic substances:  
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 0 %

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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### SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
6.0	22.05.2024	10638372-00012	Date of first issue: 06.12.2011

### Full text of H-Statements

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.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H360F	: May damage fertility.
H372	: Causes damage to organs through prolonged or repeated exposure.
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.
H413	: May cause long lasting harmful effects to aquatic life.
EUH071	: Corrosive to the respiratory tract.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Repr.	: Reproductive toxicity
Resp. Sens.	: Respiratory sensitisation
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
DE DFG MAK	: Germany. MAK BAT Annex IIa
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
DE DFG MAK / Mow	: Momentary value
DE DFG MAK / MAK	: MAK value
DE TRGS 900 / AGW	: Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test popula-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## ENGINE-OIL-TREATMENT - 300 ML

Version	Revision Date:	SDS Number:	Date of last issue: 18.10.2023
6.0	22.05.2024	10638372-00012	Date of first issue: 06.12.2011

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tion; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

Aquatic Chronic 3                      H412

### Classification procedure:

Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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