

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 1/19

## Mabanol Radon Gear ATF 9 Speed

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

#### 1.1. Product identifier

Trade name/designation:

Mabanol Radon Gear ATF 9 Speed

UFI:

4NXU-3JPP-323H-TPCU

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

Use of the substance/mixture:

Getriebeöl

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

Supplier (manufacturer/importer/only representative/downstream user/distributor):

**Mabanol GmbH & Co. KG**

Koreastraße 7

20457 Hamburg

Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

E-mail (competent person): giznord@giz-nord.de

#### 1.4. Emergency telephone number

Giftinformationszentrale Göttingen , 24h: 0049 (0) 551 1 92 40

### SECTION 2: Hazards identification

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (inhalative) (Acute Tox. 4)	H332: Harmful if inhaled.	
Aspiration hazard (Asp. Tox. 1)	H304: May be fatal if swallowed and enters airways.	
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

#### \* 2.2. Label elements

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

Hazard pictograms:



**GHS08**

Health hazard



**GHS07**

Exclamation mark

Signal word: Danger

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 2/19

## Mabanol Radon Gear ATF 9 Speed

### Hazard components for labelling:

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol; diphenylamine; dimantine; 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol

#### Hazard statements for health hazards

H304	May be fatal if swallowed and enters airways.
H332	Harmful if inhaled.

#### Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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#### Precautionary statements

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

#### Precautionary statements Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.

#### Precautionary statements Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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#### Precautionary statements Storage

P405	Store locked up.
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#### Precautionary statements Disposal

P501	Dispose of contents/container to Dispose of waste according to applicable legislation..
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### Additional information:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### \* 3.2. Mixtures

#### Description:

Highly refined mineral oils and additives.

#### Additional information:

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-54-7 EC No.: 265-157-1 REACH No.: 01-2119484627-25	<b>Distillates (petroleum), hydrotreated heavy paraffinic</b> Asp. Tox. 1 (H304) Danger	50 - < 80 weight-%
CAS No.: 68649-11-6 EC No.: 500-228-5 REACH No.: 01-2119493069-28	<b>Dec-1-ene, dimers, hydrogenated</b> Acute Tox. 4 (H332), Asp. Tox. 1 (H304) Danger	25 - < 50 weight-%
	<b>Oil Soluble Polyalkylene Glycol</b> Aquatic Chronic 3 (H412)	2.5 - < 10 weight-%

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 3/19

## Mabanol Radon Gear ATF 9 Speed

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 72623-86-0 EC No.: 276-737-9 REACH No.: 01-2119474878-16	<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</b> Asp. Tox. 1 (H304) Danger	1 - < 2.5 weight-%
	<b>Short-, medium- and long-chain alkyl methacrylates and short-chain alkyl methacrylamide copolymer (Confidentiality: ACC-QT664993-91)</b> Eye Irrit. 2 (H319) Warning <b>Specific concentration limit (SCL)</b> Eye Irrit. 2; H319: 75% ≤ C < 100%	1 - < 2.5 weight-%
	<b>mineral oil</b> Asp. Tox. 1 (H304) Danger <b>Additional information:</b> The mineral oil contained can be described by one or more of the following numbers: 64741-88-4 (01-2119488706-23), 64741-89-5 (01-2119487067-30), 64741-95-3 (01-2119487081-40), 64741-96-4 (01-2119483621-38), 64741-97-5 (01-2119480374-36), 64742-01-4 (01-2119488707-21), 64742-52-5 (01-2119467170-45), 64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-57-0 (01-2119489287-22), 64742-62-7 (01-2119480472-38), 64742-65-0 (01-2119471299-27), 64742-71-8 (01-2119485040-48), 72623-85-9 (01-2119555262-43), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 74869-22-0 (01-2119495601-36).	0.3 - < 2.5 weight-%
CAS No.: 64742-55-8 EC No.: 265-158-7 REACH No.: 01-2119487077-29	<b>Distillates (petroleum), hydrotreated light paraffinic</b> Asp. Tox. 1 (H304) Danger	0.3 - < 2.5 weight-%
CAS No.: 398141-87-2 EC No.: 800-172-4 REACH No.: 01-2119969520-35	<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> Aquatic Chronic 2 (H411) Aquatic	0.3 - < 2.5 weight-%
	<b>Long-chain alkenyl succinimide (EU Confidentiality:ACC-NN808816-16)</b> Aquatic Chronic 4 (H413)	0.3 - < 2.5 weight-%
CAS No.: 124-28-7 EC No.: 204-694-8 REACH No.: 01-2119486676-20	<b>dimantine</b> Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1B (H314) Danger M-factor (acute): 10	< 0.3 weight-%
CAS No.: 1218787-32-6 EC No.: 620-540-6 REACH No.: 01-2119510877-33	<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1C (H314) Danger M-factor (acute): 10 M-factor (chronic): 1	< 0.3 weight-%
CAS No.: 218141-16-3 EC No.: 939-485-7 REACH No.: 01-2119974116-35	<b>1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich</b> Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1B (H314) Danger M-factor (acute): 10	< 0.1 weight-%
CAS No.: 95-38-5 EC No.: 202-414-9 REACH No.: 01-2119777867-13	<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), STOT RE 2 (H373), Skin Corr. 1C (H314) Danger M-factor (acute): 10 M-factor (chronic): 1	< 0.1 weight-%

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 4/19

## Mabanol Radon Gear ATF 9 Speed

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 108-11-2 EC No.: 203-551-7 Index No.: 603-008-00-8 REACH No.: 01-2119473979-13	<b>4-methylpentan-2-ol</b> Flam. Liq. 3 (H226), STOT SE 3 (H335) Warning <b>Specific concentration limit (SCL)</b> STOT SE 3; H335: C ≥ 25%	< 0.1 weight-%
CAS No.: 122-39-4 EC No.: 204-539-4 REACH No.: 01-2119488966-13	<b>diphenylamine</b> Acute Tox. 3 (H301, H311, H331), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Irrit. 2 (H319), STOT RE 2 (H373) Danger	< 0.1 weight-%

Full text of H- and EUH-phrases: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### Following inhalation:

Remove person to fresh air and keep comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

##### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, consult a physician.

##### After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

##### Following ingestion:

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

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

Observe risk of aspiration if vomiting occurs.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Water spray jet.

##### Unsuitable extinguishing media:

Full water jet.

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

Burning produces heavy smoke.

##### Hazardous combustion products:

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Sulphur dioxide (SO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

#### 5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 5/19

## Mabanol Radon Gear ATF 9 Speed

### SECTION 6: Accidental release measures

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

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

**Personal precautions:**

Use personal protection equipment. Ventilate affected area. Special danger of slipping by leaking/spilling product.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

**For cleaning up:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

#### 6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

### SECTION 7: Handling and storage

#### \* 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Wear personal protection equipment (refer to section 8). Avoid: generation/formation of aerosols. Generation/formation of mist.

**Fire prevent measures:**

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

**Advices on general occupational hygiene**

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Used working clothes should not be worn outside the work area. Wash contaminated clothing before reuse.

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

**Technical measures and storage conditions:**

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

**Hints on storage assembly:**

Keep away from: Food and feedingstuffs.

Do not store together with: Oxidizing agent.

**Storage class (TRGS 510, Germany):** 10 - Combustible liquids that cannot be assigned to any of the above storage classes

**Further information on storage conditions:**

Temperature control required. Keep container tightly closed.

Protect against: Light. UV-radiation/sunlight. Air.

storage temperature: 0 - 40°C.

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

No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 6/19

## Mabanol Radon Gear ATF 9 Speed

### SECTION 8: Exposure controls/personal protection

#### \* 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE) from 1 Dec 2011	<b>Dec-1-ene, dimers, hydrogenated</b> CAS No.: 68649-11-6 EC No.: 500-228-5	① 5 mg/m <sup>3</sup> ② 20 mg/m <sup>3</sup> ⑤ (alveolengängige Fraktion) Y, DFG
TRGS 900 (DE)	<b>4-methylpentan-2-ol</b> CAS No.: 108-11-2 EC No.: 203-551-7	① 20 ppm (85 mg/m <sup>3</sup> ) ② 20 ppm (85 mg/m <sup>3</sup> ) ⑤ DFG
TRGS 900 (DE) from 29 Mar 2019	<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4	① 5 mg/m <sup>3</sup> ② 10 mg/m <sup>3</sup> ⑤ (kann über die Haut aufgenommen werden) DFG, Y, H

##### 8.1.2. Biological limit values

No data available

##### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</b> CAS No.: 72623-86-0 EC No.: 276-737-9	2.73 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</b> CAS No.: 72623-86-0 EC No.: 276-737-9	5.58 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</b> CAS No.: 72623-86-0 EC No.: 276-737-9	1.19 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, local effects
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</b> CAS No.: 72623-86-0 EC No.: 276-737-9	0.97 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</b> CAS No.: 72623-86-0 EC No.: 276-737-9	0.74 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4	3.1 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4	0.8 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 7/19

## Mabanol Radon Gear ATF 9 Speed

Substance name	DNEL value	① DNEL type ② Exposure route
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4	44 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4	22 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4	0.4 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8	1 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8	1 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, systemic effects
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8	1 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8	1 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8	0.5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6	0.522 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6	0.42 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6	0.15 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6	0.15 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich</b> CAS No.: 218141-16-3 EC No.: 939-485-7	4.9 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich</b> CAS No.: 218141-16-3 EC No.: 939-485-7	0.74 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich</b> CAS No.: 218141-16-3 EC No.: 939-485-7	0.7 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 8/19

## Mabanol Radon Gear ATF 9 Speed

Substance name	DNEL value	① DNEL type ② Exposure route
<b>1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich</b> CAS No.: 218141-16-3 EC No.: 939-485-7	0.25 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich</b> CAS No.: 218141-16-3 EC No.: 939-485-7	0.25 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> CAS No.: 95-38-5 EC No.: 202-414-9	0.46 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> CAS No.: 95-38-5 EC No.: 202-414-9	14 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, systemic effects
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> CAS No.: 95-38-5 EC No.: 202-414-9	0.06 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
<b>Distillates (petroleum), hydrotreated heavy paraffinic</b> CAS No.: 64742-54-7 EC No.: 265-157-1	9.33 mg/kg	① PNEC secondary poisoning
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</b> CAS No.: 72623-86-0 EC No.: 276-737-9	9.33 mg/kg	① PNEC secondary poisoning
<b>Distillates (petroleum), hydrotreated light paraffinic</b> CAS No.: 64742-55-8 EC No.: 265-158-7	9.33 mg/kg	① PNEC secondary poisoning
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4	0.002 mg/L	① PNEC aquatic, freshwater
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4	0.0002 mg/L	① PNEC aquatic, marine water
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4	0.435 mg/kg	① PNEC sediment, freshwater
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4	0.435 mg/kg	① PNEC sediment, marine water
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4	6.66 mg/kg	① PNEC secondary poisoning



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 9/19

## Mabanol Radon Gear ATF 9 Speed

Substance name	PNEC Value	① PNEC type
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8	0.00026 mg/L	① PNEC aquatic, freshwater
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8	0.00003 mg/L	① PNEC aquatic, marine water
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8	0.13 mg/L	① PNEC sewage treatment plant
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8	1.25 mg/kg	① PNEC sediment, freshwater
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8	0.125 mg/kg	① PNEC sediment, marine water
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8	1 mg/kg	① PNEC soil
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6	0.000214 mg/L	① PNEC aquatic, freshwater
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6	0.000021 mg/L	① PNEC aquatic, marine water
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6	1.5 mg/L	① PNEC sewage treatment plant
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6	1.692 mg/kg	① PNEC sediment, freshwater
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6	0.169 mg/kg	① PNEC sediment, marine water
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6	5 mg/kg	① PNEC soil
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6	2 mg/kg	① PNEC secondary poisoning
<b>1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich</b> CAS No.: 218141-16-3 EC No.: 939-485-7	0.00084 mg/L	① PNEC aquatic, freshwater
<b>1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich</b> CAS No.: 218141-16-3 EC No.: 939-485-7	0.000084 mg/L	① PNEC aquatic, marine water
<b>1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich</b> CAS No.: 218141-16-3 EC No.: 939-485-7	1.3 mg/L	① PNEC sewage treatment plant

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 10/19

## Mabanol Radon Gear ATF 9 Speed

Substance name	PNEC Value	① PNEC type
<b>1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich</b> CAS No.: 218141-16-3 EC No.: 939-485-7	3.19 mg/kg	① PNEC sediment, freshwater
<b>1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich</b> CAS No.: 218141-16-3 EC No.: 939-485-7	0.32 mg/kg	① PNEC sediment, marine water
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> CAS No.: 95-38-5 EC No.: 202-414-9	0 mg/L	① PNEC aquatic, freshwater
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> CAS No.: 95-38-5 EC No.: 202-414-9	0 mg/L	① PNEC aquatic, marine water
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> CAS No.: 95-38-5 EC No.: 202-414-9	0.27 mg/L	① PNEC sewage treatment plant
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> CAS No.: 95-38-5 EC No.: 202-414-9	0.376 mg/kg	① PNEC sediment, freshwater
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> CAS No.: 95-38-5 EC No.: 202-414-9	0.038 mg/kg	① PNEC sediment, marine water

### \* 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Provide adequate ventilation.

#### 8.2.2. Personal protection equipment



##### Eye/face protection:

Safety goggles with side protection. In case of increased risk add protective face shield. DIN EN 166.

##### Skin protection:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: NBR (Nitrile rubber). Thickness of the glove material: > 0,35 mm. Breakthrough time: > 480 min.

Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable protective clothing: flame-resistant.

##### Respiratory protection:

Usually no personal respirative protection necessary.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values. insufficient ventilation. aerosol or mist formation.

Suitable respiratory protection apparatus: Combination filtering device.

#### 8.2.3. Environmental exposure controls

No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 11/19

## Mabanol Radon Gear ATF 9 Speed

### 8.3. Additional information

air limit values:

Possibility of exposure to Aerosols

Limit value = 5 mg/m<sup>3</sup> (ACGIH TLV)

Limit value = 10 mg/m<sup>3</sup> (ACGIH STEL)

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Flüssig

**Colour:** braun.

**Odour:** not determined

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	No data available		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Flash point	174 °C		① ASTM D92 ② COC
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	0.835 g/cm <sup>3</sup>	15 °C	① ASTM D4052
Bulk density	not applicable		
Water solubility	Immiscible		
Dynamic viscosity	No data available		
Kinematic viscosity	17.1 mm <sup>2</sup> /s	40 °C	① ASTM D7279
Pour point	-54 °C		① ASTM D5950

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

Oxidising agent, strong.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2

Page 12/19



## Mabanol Radon Gear ATF 9 Speed

### SECTION 11: Toxicological information

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

<b>Distillates (petroleum), hydrotreated heavy paraffinic</b> CAS No.: 64742-54-7 EC No.: 265-157-1
<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat) OECD 401
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit) OECD 402
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/L 4 h (Rat)
<b>Dec-1-ene, dimers, hydrogenated</b> CAS No.: 68649-11-6 EC No.: 500-228-5
<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Ratte)
<b>LD<sub>50</sub> dermal:</b> >3,000 mg/kg (Kaninchen)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 1.17 mg/L 4 h (Ratte)
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</b> CAS No.: 72623-86-0 EC No.: 276-737-9
<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat) OECD 401
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit) OECD 402
<b>Distillates (petroleum), hydrotreated light paraffinic</b> CAS No.: 64742-55-8 EC No.: 265-158-7
<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat) OECD 401
<b>LD<sub>50</sub> dermal:</b> >5,000 mg/kg (Rabbit) OECD 402
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >5.53 mg/L 4 h (Rat) OECD 403
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4
<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> >4,000 mg/kg (Rabbit)
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8
<b>LD<sub>50</sub> oral:</b> 1,015 mg/kg (Rat)
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6
<b>LD<sub>50</sub> oral:</b> 1,200 mg/kg (Rat) OECD 425
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> CAS No.: 95-38-5 EC No.: 202-414-9
<b>LD<sub>50</sub> oral:</b> 1,265 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit)
<b>4-methylpentan-2-ol</b> CAS No.: 108-11-2 EC No.: 203-551-7
<b>LD<sub>50</sub> oral:</b> >2,590 mg/kg (Ratte)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >16 mg/L 4 h (Ratte)
<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4
<b>LD<sub>50</sub> oral:</b> 100 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> 300 mg/kg (Rabbit)

#### Acute oral toxicity:

Based on available data, the classification criteria are not met.

#### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

#### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 13/19

## Mabanol Radon Gear ATF 9 Speed

### 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.

### Additional information:

Frequently or prolonged contact with skin may cause dermal irritation.

### \* 11.2. Information on other hazards

#### Endocrine disrupting properties:

No information available.

## SECTION 12: Ecological information

### \* 12.1. Toxicity

<b>Distillates (petroleum), hydrotreated heavy paraffinic</b> CAS No.: 64742-54-7 EC No.: 265-157-1
<b>NOEC:</b> 10 mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211
<b>Dec-1-ene, dimers, hydrogenated</b> CAS No.: 68649-11-6 EC No.: 500-228-5
<b>LC<sub>50</sub>:</b> >1,000 mg/L (fish)
<b>Distillates (petroleum), hydrotreated light paraffinic</b> CAS No.: 64742-55-8 EC No.: 265-158-7
<b>LC<sub>50</sub>:</b> >100 mg/L 4 d (fish, Pimephales promelas (fathead minnow)) OECD 203
<b>EC<sub>50</sub>:</b> >10,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202
<b>EC<sub>50</sub>:</b> >100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
<b>NOEC:</b> >10 mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4
<b>LC<sub>50</sub>:</b> 2.4 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
<b>ErC<sub>50</sub>:</b> 3.5 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
<b>EC<sub>50</sub>:</b> 4.6 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
<b>LC<sub>50</sub>:</b> 2.4 mg/L (fish)
<b>EC<sub>50</sub>:</b> 4.6 mg/L (crustaceans)
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8
<b>LC<sub>50</sub>:</b> 0.256 mg/L 4 d (fish, Danio rerio (zebrafish)) OECD 203
<b>ErC<sub>50</sub>:</b> 0.0141 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201
<b>NOEC:</b> 0.036 mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6
<b>LC<sub>50</sub>:</b> 0.6 mg/L 4 d (fish, Danio rerio (zebrafish))
<b>LC<sub>50</sub>:</b> 0.1 mg/L (fish)
<b>EC<sub>50</sub>:</b> 0.043 mg/L (crustaceans)
<b>NOEC:</b> 0.32 mg/L 21 d (crustaceans, Daphnia magna (Big water flea))
<b>NOEC:</b> 0.0107 mg/L
<b>ErC<sub>50</sub>:</b> 0.0867 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
<b>ErC<sub>50</sub>:</b> 0.0538 mg/L (Algae/water plant)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 14/19

## Mabanol Radon Gear ATF 9 Speed

<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> CAS No.: 95-38-5 EC No.: 202-414-9
<b>LC<sub>50</sub>:</b> 0.3 mg/L (fish)
<b>EC<sub>50</sub>:</b> 0.163 mg/L (crustaceans, Daphnia magna (Big water flea))
<b>EC<sub>50</sub>:</b> 0.0169 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus, Desmodesmus subspicatus)
<b>EC<sub>50</sub>:</b> 0.03 mg/L 3 d (Algae/water plant)
<b>NOEC:</b> 0.014 mg/L (Algae/water plant)
<b>4-methylpentan-2-ol</b> CAS No.: 108-11-2 EC No.: 203-551-7
<b>LC<sub>50</sub>:</b> >92.4 mg/L (fish)
<b>EC<sub>50</sub>:</b> 139 mg/L 3 d (Algae/water plant)
<b>EC<sub>50</sub>:</b> 337 mg/L (crustaceans)
<b>NOEC:</b> 288 mg/L
<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4
<b>EC<sub>50</sub>:</b> 115 mg/L (crustaceans)
<b>LC<sub>50</sub>:</b> 3.79 mg/L (fish)
<b>EC<sub>50</sub>:</b> 0.18 mg/L 3 d (Algae/water plant)

### Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

### \* 12.2. Persistence and degradability

<b>Distillates (petroleum), hydrotreated heavy paraffinic</b> CAS No.: 64742-54-7 EC No.: 265-157-1
<b>Biodegradation:</b> —
<b>Remark:</b> Not readily biodegradable (according to OECD criteria)
<b>Oil Soluble Polyalkylene Glycol</b>
<b>Biodegradation:</b> —
<b>Remark:</b> Not readily biodegradable (according to OECD criteria)
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</b> CAS No.: 72623-86-0 EC No.: 276-737-9
<b>Biodegradation:</b> —
<b>Remark:</b> Not readily biodegradable (according to OECD criteria)
<b>Distillates (petroleum), hydrotreated light paraffinic</b> CAS No.: 64742-55-8 EC No.: 265-158-7
<b>Biodegradation:</b> —
<b>Remark:</b> Not readily biodegradable (according to OECD criteria).
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4
<b>Biodegradation:</b> —
<b>Remark:</b> Not readily biodegradable (according to OECD criteria)
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8
<b>Biodegradation:</b> —
<b>Remark:</b> Readily biodegradable (according to OECD criteria).
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6
<b>Biodegradation:</b> —
<b>Remark:</b> Not readily biodegradable (according to OECD criteria)
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> CAS No.: 95-38-5 EC No.: 202-414-9
<b>Biodegradation:</b> —
<b>Remark:</b> Not readily biodegradable (according to OECD criteria)
<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4
<b>Biodegradation:</b> —
<b>Remark:</b> Not readily biodegradable (according to OECD criteria)

### Additional information:

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 15/19

## Mabanol Radon Gear ATF 9 Speed

### \* 12.3. Bioaccumulative potential

<b>Distillates (petroleum), hydrotreated light paraffinic</b> CAS No.: 64742-55-8 EC No.: 265-158-7
<b>Log K<sub>OW</sub>:</b> > 3.5
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4
<b>Log K<sub>OW</sub>:</b> 4.11
<b>Bioconcentration factor (BCF):</b> 31 Species: Cyprinus carpio (Common Carp)
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8
<b>Log K<sub>OW</sub>:</b> 88
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6
<b>Log K<sub>OW</sub>:</b> 3.6
<b>Bioconcentration factor (BCF):</b> 110.2
<b>1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich</b> CAS No.: 218141-16-3 EC No.: 939-485-7
<b>Log K<sub>OW</sub>:</b> -0.34
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> CAS No.: 95-38-5 EC No.: 202-414-9
<b>Log K<sub>OW</sub>:</b> 8.4
<b>Bioconcentration factor (BCF):</b> 1.65
<b>4-methylpentan-2-ol</b> CAS No.: 108-11-2 EC No.: 203-551-7
<b>Log K<sub>OW</sub>:</b> 1.9
<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4
<b>Log K<sub>OW</sub>:</b> 3.8

### 12.4. Mobility in soil

No information available.

### \* 12.5. Results of PBT and vPvB assessment

<b>Distillates (petroleum), hydrotreated heavy paraffinic</b> CAS No.: 64742-54-7 EC No.: 265-157-1
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>Dec-1-ene, dimers, hydrogenated</b> CAS No.: 68649-11-6 EC No.: 500-228-5
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>Oil Soluble Polyalkylene Glycol</b>
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</b> CAS No.: 72623-86-0 EC No.: 276-737-9
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>Short-, medium- and long-chain alkyl methacrylates and short-chain alkyl methacrylamide copolymer (Confidentiality: ACC-QT664993-91)</b>
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>mineral oil</b>
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>Distillates (petroleum), hydrotreated light paraffinic</b> CAS No.: 64742-55-8 EC No.: 265-158-7
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11 branched alkyloxy) derivs., C10-rich</b> CAS No.: 398141-87-2 EC No.: 800-172-4
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>Long-chain alkenyl succinimide (EU Confidentiality:ACC-NN808816-16)</b>
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>dimantine</b> CAS No.: 124-28-7 EC No.: 204-694-8
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino)diethanol</b> CAS No.: 1218787-32-6 EC No.: 620-540-6
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 16/19

## Mabanol Radon Gear ATF 9 Speed

<b>1-Propanamine, 3-(C9-11-isoalkyloxy) derivs., C10-rich</b> CAS No.: 218141-16-3 EC No.: 939-485-7
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol</b> CAS No.: 95-38-5 EC No.: 202-414-9
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>4-methylpentan-2-ol</b> CAS No.: 108-11-2 EC No.: 203-551-7
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>diphenylamine</b> CAS No.: 122-39-4 EC No.: 204-539-4
<b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### \* 12.6. Endocrine disrupting properties

No information available.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

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

\*: Evidence for disposal must be provided.

#### Waste treatment options

##### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

##### Appropriate disposal / Package:

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es)</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.4. Packing group</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.5. Environmental hazards</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.6. Special precautions for user</b>			
not relevant	not relevant	not relevant	not relevant

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

not relevant.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 17/19

## Mabanol Radon Gear ATF 9 Speed

### SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Restrictions on use:

Use restriction according to REACH annex XVII, no.: 3.

##### Other regulations (EU):

This product is not assigned to a hazard category.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]: No information available.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: No information available.

Observe in addition any national regulations!

#### 15.1.2. National regulations

##### [DE] National regulations

##### Störfallverordnung (12. BImSchV)

##### for substances contained in the product:

This product is not assigned to a hazard category.

##### Water hazard class

##### WGK:

3 - highly hazardous to water

##### Remark:

Self-classification (mixture; calculation rule).

#### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

\* **15.3. Additional information**

Water hazard class (WGK): 3 (highly hazardous to water).

### SECTION 16: Other information

\* **16.1. Indication of changes**

2.2.	Label elements
3.2.	Mixtures
7.1.	Precautions for safe handling
7.2.	Conditions for safe storage, including any incompatibilities
8.1.	Control parameters
8.2.	Exposure controls
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.3.	Additional information
16.1.	Indication of changes
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

#### 16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: Accord européen sur le transport des marchandises dangereuses par Route (International Carriage of Dangerous Goods by Road)

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 23 Nov 2023

Print date: 23 Nov 2023

Version: 2



Page 18/19

## Mabanol Radon Gear ATF 9 Speed

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC<sub>50</sub>: Lethal concentration, 50 percent

LD<sub>50</sub>: Lethal dose, 50 percent

NIOSH: National Institute of Occupational Safety and Health

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OEL: Occupational Exposure limit (Arbeitsplatzgrenzwert)

OSHA: Occupational Safety and Health Administration

PEL: permissible exposure limit (Zulässiger Expositionsgrenzwert)

PBT: persistent bioaccumulative toxic

PNEC: predicted no effect concentration

REL: Recommended exposure limit (Empfohlene Expositionsgrenze)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit (Kurzzeitgrenzwert) (15 min)

SVHC: substance of very high concern

TLV: Threshold Limit Values (Schwellwert Grenzwerte)

TRGS Technische Regeln für Gefahrstoffe

TSCA: Toxic Substances Control Act

TWA: Time Weighted Average (Zeitlich gewichteter Mittelwert) (8 h)

VOC: Volatile Organic Compounds

vPvB: very persistent and very bioaccumulative

WGK: Wassergefährdungsklasse

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (inhalative) ( <i>Acute Tox. 4</i> )	H332: Harmful if inhaled.	
Aspiration hazard ( <i>Asp. Tox. 1</i> )	H304: May be fatal if swallowed and enters airways.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	

### \* 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 23 Nov 2023

**Print date:** 23 Nov 2023

**Version:** 2



Page 19/19

## Mabanol Radon Gear ATF 9 Speed

Hazard statements	
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause 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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

\* Data changed compared with the previous version.